

CONVAIR **Weekly Log**

January 14, 1980

Published by the Convair Division of General Dynamics

Chuck Holland (right) recently received his eighth patent award, making him the current patent leader at Convair. Above, George Esslinger, director of Manufacturing Engineering, makes the presentation.

Oliver Boileau New General Dynamics President

The corporate Board of Directors has appointed Oliver C. Boileau president of General Dynamics. As president, he will succeed David S. Lewis, who will continue to serve as chairman and chief executive officer.

Boileau, 52, is a vice president of the Boeing Company, and is now serving as president of the Boeing Aerospace Company.

After receiving bachelor of science and master of science degrees in electrical engineering from the University of Pennsylvania, Boileau joined Boeing in 1953 as an electrical engineer. He has since progressed through many technical and managerial positions of increasing responsibility and was appointed to his present position in 1973.

Third FltSatCom Launch Set for Thursday

Atlas/Centaur 49 is in final preparation for a launch from Cape Canaveral scheduled for Thursday afternoon. The payload is a Fleet Satellite Communications spacecraft, which will function as part of the Department of Defense world-wide ultra-high-frequency communication system. Thursday's launch will be the third of five for FltSatComs.

Defensive Driving Course Rolls Feb. 5, 12

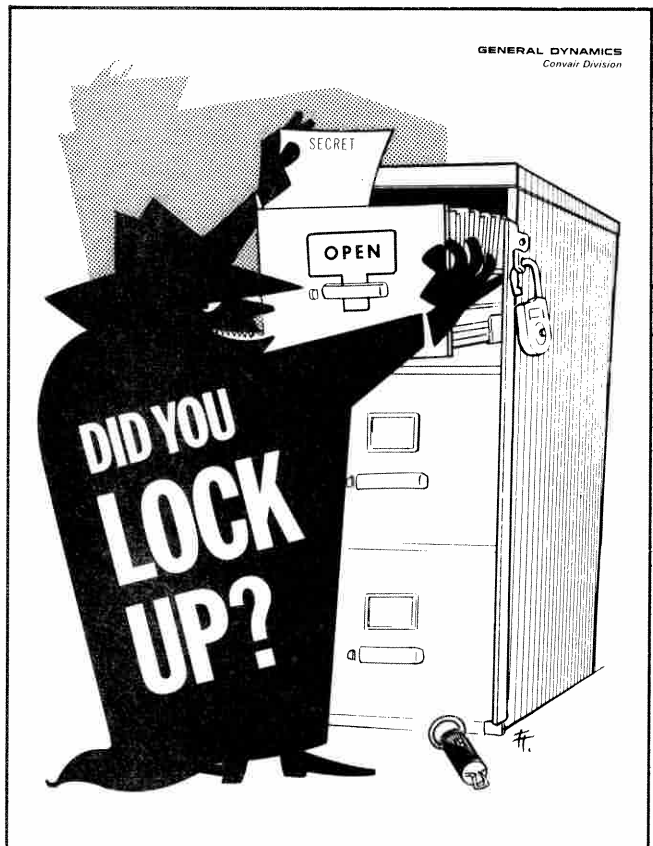
All employees and their families are invited to take the Defensive Driving Course of the National Safety Council. The course is being given at Convair for the third time. Since more than ninety percent of all auto accidents can be prevented by the driver, knowledge of the hazards of driving and how to defend against them reduces accidents and prevents deaths.

The course teaches crash avoidance and builds confidence in those who want a refresher course for safer driving. A bonus of the course is that it is recognized by the courts of San Diego County as a "Traffic School" for those who have traffic citations and permission to attend. The certificate of completion nullifies the fine and protects the driving record.

The class will meet on two consecutive Tuesday evenings, February 5 and 12, from 5:00 to 8:00, in the presentation room above the main lobby of building 2 at Kearny Mesa. The registration fee of \$10.00 covers materials and can be paid at the first session. Reserve now by calling Instructor Sam Long at ext. 1525. The Convair Management Association is sponsoring the course.

DC-10 Fuselage Delivered

DC-10 fuselage 327 was delivered to McDonnell Douglas on January 9, in accordance with contract schedule.



Security Is Everyone's Business

Here are some important reminders about security. Containers must be kept locked when not under the direct supervision of a person officially entrusted with the combination, keys, or contents of classified files.

The possessor of classified material is responsible for establishing two facts before releasing classified information: the recipient has the necessary clearance level; and the recipient has a need-to-know.

General Dynamics Declares Dividend

Last week, the General Dynamics Board of Directors declared the regular quarterly dividend of 30¢ per share on the company's common stock, payable on February 19 to holders of record on January 21.



ETR Champs Take League Trophy

The Convair Eastern Test Range softball team took the league championship with an undefeated season in the Kennedy Athletic, Recreation, and Social League. Above, team representatives present Dan Sarokon (center), ETR base manager, with the championship trophy, a team picture, and softball inscribed with the team record. Team representatives from left are Benny Price, Dave Carden, Allen Robinson, and Digger Ljungquist.

Con-Trib Pledge to United Way Announced

Approximately \$600,000 will be allocated to human and health care agencies in San Diego County during fiscal 1979-80 by Convair and Western Data Systems Center employees through their Con-Trib Club.

From this estimated contribution, the Con-Trib Club Board of Directors has authorized a pledge to the United Way of \$391,450; representing a 17.5 percent increase over last year's pledge. This pledge exceeds the United Way goal of a 12.1 percent increase. The Con-Trib Club Board of Directors and the recipient human and health care agencies of San Diego County extend a sincere thank-you to all contributors.

CMA Scholarship Applications Now Available

Eligible children of all employees may apply for one of the scholarships awarded annually by the Convair Management Association to help the student in her or his first year at college. Here are the eligibility requirements in brief: applicants must be high school seniors graduating this June or be recent graduates; applicants must be in the upper third of their class; one parent or legal guardian of the applicant must work at Convair.

For details and applications, call Deloris Meredith at KM 6325 or 2089. All CMA boosters also have applications. The completed forms are due back to Deloris on or before March 31.

Bithell to Present Tech Paper at AIAA Tomorrow

Robin A. Bithell of the Aerodynamics Department (695-0) will present his technical paper, "Development of a Rapid Approach for Missile Synthesis," tomorrow at the Eighteenth Aerospace Sciences Meeting of the American Association of Aeronautics and Astronautics. The meeting, which runs from today through Wednesday, is being held in Pasadena.

New Seminars in Management Begin This Week

All employees are invited to attend these seminars, which are being offered by the Convair Management Association. Each course is free for CMA members and costs \$3 for nonmembers.

"Discussion for Learning." Based on practical exercise in leading group discussions, this course develops a solid foundation for discussion leaders and instructors.

The six sessions will be held on January 15, 22, and 29, and February 5, 12, and 19, from 4 to 5:30 p.m. in building 33 at Lindbergh Field. The instructor is Steve Carter. For details and reservations, call Klaus Flitner at LF 4340.

"Critical Incidents in Management." The course makes use of case studies and group discussions to improve skills in solving management problems.

The six sessions will be held on January 16, 23, and 30, and February 6, 13, and 20, from 4:30 to 6 p.m. in building 17, room 1, at Kearny Mesa. Rick Barker is the instructor. For details and to make reservations, call Rick at KM 3093.

Dynamic Toastmasters Elects New Officers

Newly elected officers of CRA Dynamic Toastmasters Club 457 are: president — Teri Norris; administrative vice president — Theresa Medina; educational vice president — Ray Peters; secretary — Jim Coons; treasurer — Harry Litten; and sgt.-at-arms — Chuck Simpson.

The club meets every Thursday from 5 to 7 p.m. in the CRA clubhouse, room C. Any employees interested in improving their speaking skills and assurance are invited. Contact Teri Norris, LF 4070, or Terry Medina, KM 2434.

Eight employees have recently completed an eight-week Speechcraft course sponsored by Dynamic Toastmasters. Congratulations to: Myrna Denton, Gene Droke, Shirley Elson, Mike Ross, John Rule, Al Sorgi, Jeff Swain, and Martha Wallen.

Employee Contributions Made Holiday Brighter

Congratulations to all departments whose contributions at Christmas made the holiday brighter for several needy families. Our thanks go to the employees of Departments 015, 110, 111, 242, 662, 663, 664, and 820.

They donated generously — money, food baskets, clothing, and toys.

If you missed this opportunity to help people in need at Christmas and wish to plan ahead for next year, contact Betty Taylor (LF 4554) at the Con-Trib office.

Special San Diego Zoo Tour on Jan. 24

All employees and their families are invited to take the special zoo tour on Thursday, January 24, that will highlight all aspects of zookeeping. Learn how the San Diego Zoo feeds, houses, and cares for more than 3,500 animals every day. Find out about current zoo programs designed to help save endangered species. The tour includes a slide presentation and the opportunity to meet some exotic animals face to face.

The tour begins at 5 p.m. Price of the tour is \$4.50. A beef and chicken kabob dinner at the Golden Eagle restaurant right after the tour will also be available, at \$9.50 per person, if enough people sign up for it. To reserve for the tour, or for both the tour and dinner, call Barbara Freeman (KM 2826) or Elaine Paras (KM 1691).

Ballroom Dancing Classes Start Jan. 21

New ballroom dancing classes for beginners and intermediates will start Monday, January 21, at 7 p.m., in the CRA clubhouse auditorium. The classes run for 10 consecutive weeks. The cost for the series is \$20 per couple. The instructors are Bernard and Mary Spencer. For more information, call Royce Riggan (KM 3276).

Alaskan Cruise Deposits Due • Other Tour News

A \$200 deposit per person, for the June 12-20 fly/cruise trip to Alaska, is due this Wednesday. Contact Shirley Nowlin, KM 1163. She reports that some choice cabins are still available.

Trips farther downstream: there's a weekend raft trip (yes, raft) in July and a five-day holiday in Mazatlan over Labor Day. Ask Shirley about these, too. All this good stuff is sponsored by the Convair Management Association.

Yoga and Meditation Classes Under Way at HFC

All employees are invited to attend the yoga and meditation classes being offered by the Health-Fitness Center in the CRA clubhouse. You may attend the yoga classes on Mondays, January 14 through February 11, or on Tuesdays, January 15 through February 12. The classes are from 4:30 to 6 p.m. The fee is \$33.

Meditation classes are from 6 to 7:30 p.m. on Mondays, January 14 through February 11, and from 11:45 a.m. to 12:30 p.m. on Wednesdays, January 16 through February 13. The fee is \$33 for the ninety-minute Monday classes and \$16.50 for the shorter Wednesday classes.

For further information, call Marc Michaelson at KM 1111.

Still Time to See Space Players' 'The Women'

Performances this Friday and Saturday evening at 8 p.m. will conclude the run of the Clare Boothe Luce comedy "The Women," in the Space Players' production at the CRA theater. For reservations, call the ticket office in the CRA clubhouse (KM 1111).

Convair and F-16 Featured in This Week's Films

A double feature this week brings you "Convair Products," a good look at who we are and what we make, and "Bird of Prey," a Fort Worth Division film about the F-16.

At Kearny Mesa, showings will be on Wednesday in classroom 3 of building 17 at 11:00 a.m. and noon. At Lindbergh, showings will be on Thursday in the building 5 auditorium at 11:00 a.m., noon, and 7:30 p.m.

Employment

For the week ending January 6, employment was 9,005.

CONVAIR Weekly Log

January 28, 1980

Published by the Convair Division of General Dynamics

ALCM Successful

Our AGM-109 air launched cruise missile, AL-7, successfully flew a simulated long-range strategic mission over the Utah Test and Training Range last Thursday.

AL-7 was launched over the range from the wing pylon of a B-52G strategic bomber and flew a carefully planned route in completing the ninth in the series of ten scheduled test flights. All test objectives were met.

As in previous ALCM tests, AL-7 flew a complex course over the range to again demonstrate its navigational ability to fly over predetermined routes that include a variety of surface features. The ALCM was navigated by a terrain contour matching (TERCOM) guidance system that accurately guides the missile to designated geographic target locations. The TERCOM measured terrain heights stored in the missile's onboard computer, and corrected its course and altitude on the way to the target.

The test concluded with a preprogrammed maneuver to deliberately impact the missile on the range just as it would in attacking a target.

Tenth Anniversary

Ten years ago this month, we delivered the first DC-10 fuselage section to McDonnell Douglas. It traveled to Long Beach in a Super Guppy aircraft. Friday, we delivered fuselage number 329 — by barge, as the trip north is now made.

El Cajon-Lindbergh-Plant 19 Special Bus Service

A special bus service from El Cajon to the Lindbergh Field plant and Plant 19 is now available to first-shift employees. This express system, a private enterprise not affiliated with General Dynamics, offers an opportunity to beat traffic, parking, and gasoline problems, and to provide a car for the spouse, as well.

The yellow school bus, "Paul's Line," leaves El Cajon near the Parkway Plaza shopping center at 6:15 a.m. It stops at LF gate 2 and Plant 19 in front of building 4, so that employees arrive at both stops before 7:00 a.m. The return trip starts from LF at 3:35 p.m., stops at Plant 19, and then goes directly back to El Cajon.

Cost depends on the number of passengers, as it does in a car pool. For information and signup, call Bud Belany during normal business hours at 225-5175.

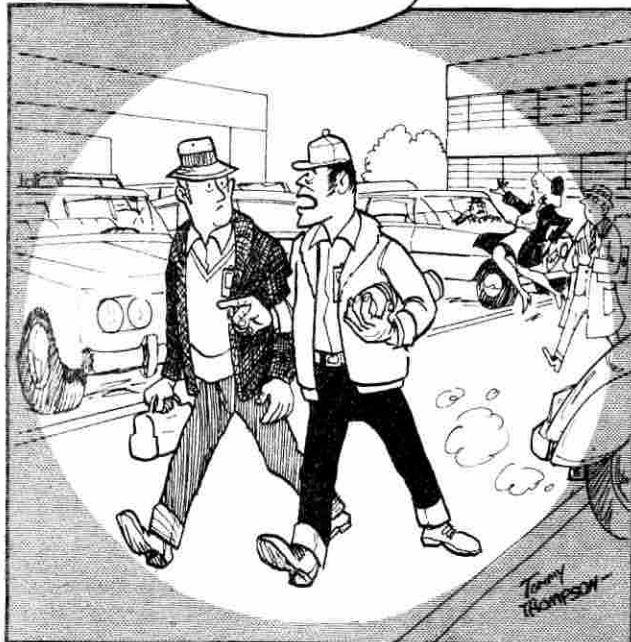
No Sale at Lindbergh on Feb. 2

There will be no salvage yard sale at Lindbergh Field on February 2. Not enough saleable material is on hand.

Hospitalization Reminder

Here's a reminder from the Employee Benefits Office for employees enrolled in the Self-Funded Medical Plan. Whenever you or your dependent is to be hospitalized (nonemergency, of course), remember that your hospital stay *must be* precertified. Please call your Employee Benefits representative (KM 3194/2657 or LF

SAFETY SPOTLIGHT



"... and now the real challenge —

getting home safely!"

4001) to arrange for a confidential counseling session. All relevant aspects of your Health Plan coverage pertaining to your pending surgery or hospitalization will be discussed. Your representative will assist you in arranging for a second surgical opinion where that is warranted, issue necessary hospital admission forms, and provide whatever help is needed to enable you to take advantage of all Convair Health Plan features.

Remember, whenever you or a dependent is to be hospitalized, you have a role to play: contacting your Employee Benefits representative.

Spaces at Lindbergh for Handicapped People

Sure, it's a great temptation on Saturday to park in the areas reserved for handicapped people at Lindbergh Field. After all, probably few handicapped people work on Saturday, right? Wrong. On several occasions, our handicapped employees who have worked Saturdays have been unable to park in their reserved areas because the spaces were taken. Please resist the temptation — save the handicapped areas for the people who need them. Oh, by the way, you'll also be preventing the possibility that your illegally parked car will be towed away.

Productivity Snag: Bad Telephone Manners

On several occasions, the Bluesheet has run items that stressed the importance of using the telephone with effi-

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ciency and courtesy. Problems remain. Recently, several people have expressed their frustration about telephoning someone and the phone remaining unanswered. As one fuming person put it: "This is just not good team support and is definitely not productive. I'm calling someone because I need something — information, help, direction. I understand that the person I'm calling may not be there, but if no one answers, I can't even get a message to him or her. This means I have to keep calling and I can't even find out if the person I need is still alive."

Here's the message: if you leave your area, please ask someone to cover your phone until you get back. If you hear someone else's phone ring, answer it and take the message. You'll find a grateful caller and be making a useful contribution to the team effort.

Do you have a productivity snag? Let's get the snags surfaced and resolved. If you have one you want to share, write it up and send it to Internal Communications, MZ 11-1330.

Golf Eight Local Courses at Deep Discount

Golf Safari International is offering all General Dynamics employees a limited membership for only \$32 that entitles the member to play four times at each of eight local clubs when accompanied by one or more full-fee-paying member(s) at that club. The eight courses: Circle R, Meadow Lake, Fallbrook, Rancho Bernardo, Navajo Canyon, Carlton Oaks, Lawrence Welk Village, and Bajamar. The memberships are transferable. Pick up an application at the CRA clubhouse (KM 1111).

New Management Seminars Announced

Three new management seminars, sponsored by the Convair Management Association, are being offered to all employees. The courses are free for CMA members and \$3.00 each for nonmembers.

"Managerial Leadership." Participants learn to determine appropriate leadership styles, accept the responsibility of leadership, and understand their effectiveness as leaders.

The four sessions will be from 4 to 6 p.m. on January

29, February 12, 19, and 26, at Kearny Mesa in room 8 of building 17. Call instructor Jim Matthews (KM 1491) for details and reservations.

"Functional Coordination." Course emphasis is on defining the responsibilities of company marketing, finance, engineering, and production. Also emphasized is the coordination required to ensure that products are made right.

The five sessions will be from 4 to 5:30 p.m. on January 30, February 6, 13, 20, and 27, at Lindbergh Field, in the building 33 conference room. Call instructor Klaus Flitner (LF 4340) for details and reservations.

"Managerial Objectives." This seminar emphasizes the methods and techniques that a manager can use to manage by results. Practical applications are used.

The four sessions will be from 4 to 6 p.m. on February 7, 12, 21, and 28, at Lindbergh Field in the building 33 conference room. The instructor will be Jim Kelly. Call Klaus Flitner (LF 4340) for details and reservations.

Defensive Driving Course Feb. 5 and 12

Enrollment is still open for the National Safety Council's defensive driving course, sponsored by the Convair Management Association. The six-hour course meets two consecutive Tuesday nights, February 5 and 12, from 5 to 8 p.m. Call Sam Long for information, at KM 1525.

Industrial Products' New Roles in Week's Film

The producer of "PPG: A Concern for the Future" is PPG Industries, a manufacturer of flat glass, plastics, fiberglass, resins, and coatings. The film shows how corporate research and development is paying off in new applications of the company's products and in new technology that benefits the nation.

At Kearny Mesa, showings will be on Wednesday in classroom 3 of building 17 at 11:00 a.m. and noon. At Lindbergh, showings will be on Thursday in the building 5 auditorium at 11:00 a.m., noon, and 7:30 p.m.

Employment

For the week ending January 20, employment was 9,006.

CONVAIR Weekly Log

February 4, 1980

Published by the Convair Division of General Dynamics

AL-7 Flight . . . Kudos From the Top

"Congratulations to the whole Convair ALCM team for a highly successful flight. This one proved that our bird has the goods."

David S. Lewis

F-16 Goes Into Service in Norway and Denmark

Norway and Denmark have placed their first F-16s in service. Ceremonies for the first Norwegian F-16 were held at the Royal Norwegian Air Force's Rygge air station near Oslo on January 25. Ceremonies for the first Danish F-16 took place at Skrydstrup, a Royal Danish Air Force air station in Jutland, about 140 miles from Copenhagen, on January 28. Norway and Denmark are the fourth and fifth North Atlantic Treaty Organization (NATO) nations to initiate use of the F-16.

Both fighters, twin-seat versions of the F-16, were flown to the air stations days after being delivered from assembly lines in the Netherlands and Belgium. Fokker-VFW in Holland produces all the Norwegian and Dutch F-16s, and SABCA/SONACA in Belgium produces the Danish and Belgian F-16 aircraft.

No-Smoking Sections in Dining Rooms Set

In response to employee requests for no-smoking areas in the dining rooms at Kearny and Lindbergh (second floor of building 5), a number of tables in the northwest section of each facility will be so designated starting next Monday. The areas will be expanded as employee interest warrants. Such arrangements have worked well in the past and, with everyone's cooperation, will continue to do so.

Winer and Mavko to Present Tech Paper This Week

Drs. Irvin Winer and George Mavko will present their paper "Statistical Sensor Performance Analysis" at the Los Angeles '80 Technical Symposium of the Society of Photo-Optical Instrumentation Engineers. The symposium begins today. Both Winer and Mavko are members of Advanced Avionics (621-0).

Kearny West Parking Lot Resurfacing Starts

Weather permitting, work will start this week to seal and stripe the west parking lot at Kearny Mesa (that's the lot that extends along Kearny Villa Road). The job will be completed next month.

The work will be done in increments, so that everyone will continue to have adequate parking. Please cooperate and don't try to park in barricaded areas.

People Are Asking . . . About the Bond Program

I read that Series E savings bonds can no longer be purchased. How does this affect my current bond deduction?

The Series E bond was withdrawn from sale over the counter (that is, from financial institutions) beginning



Oliver Boileau (center), newly appointed president of General Dynamics, discusses cruise missile programs with Ralph MacKenzie (left), BGM-109 vice president and program director, and Bob Lynch, prototype cruise missile programs director, during his visit to Convair last week.

January 2. A new Series EE bond is now being offered.

Series E bonds may continue to be purchased through Convair's payroll deduction plan, however, until June 1980. At that time, our plan will be converted to the purchase of Series EE bonds.

During our 1980 U.S. Savings Bonds campaign, which will be held before June, you will be provided full information about Series EE bonds, such as interest rates, maturity periods, and forms of registration.

I've heard that Series E bonds will no longer pay interest — true?

Series E bonds currently held or purchased through June will continue to earn interest on a graduating yield curve that guarantees 6% interest if held to normal maturity (five years). The U. S. Treasury Department has granted extensions on Series E bonds beyond their initial maturity dates to 1992 (and even later for most bonds). Series E bonds held in extended maturity earn 6.5% per annum, compounded semiannually.

Make Stock Investment Plan Changes This Month

April 1 is the effective date of changes that you make during February in your options or percentage of contributions for the corporate savings and stock investment plan (SSIP). Make changes in the Employee Benefits offices (KM 2559 or LF 4001).

If you now have one year of service with General Dynamics and have not been contacted, get in touch with Employee Benefits to sign up for the SSIP or to clarify your eligibility. It's especially important to do so if you were hired during the past several months and have previous General Dynamics service.

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Stock Plan Values for Dec. 1979

Here are the unit values in dollars for the General Dynamics savings and stock investment plan as of December 31, 1979.

The values for salaried employees are: government bonds, 2.2795; diversified portfolio, 1.6217; fixed income, 1.0474; and General Dynamics stock, 60.50.

The values for hourly employees are: government bonds, 2.2796; diversified portfolio, 1.6596, and General Dynamics stock, 60.50.

DC-10 Fuselage Delivered

DC-10 fuselage 330 was delivered to McDonnell Douglas last Friday, arriving one day ahead of contract schedule.

Wind + Rain + Open Windows = Bad News

For some people in buildings 1 and 3 at Kearny, this item will be an after-the-fact storm advisory. Many windows in those buildings were left open when everyone went home for the night . . . the same night that the rains and the wind hit. Next morning, it meant a big cleanup, what with papers strewn around, desks and file cabinets in disarray, and water on the floors. That kind of bad news needn't be yours: Wherever you work, please close the windows when you go home at night.

Meet Feb. 14 to Form Toastmasters at Lindbergh

If you're interested in becoming a charter member of the first Toastmasters unit to be formed at the Lindbergh Field plant, plan to attend the orientation and demonstration meeting on Thursday, February 14. It will be held from 5 to 7 p.m. on the second floor of LF building 5 in the cafeteria (that's near the auditorium). For details and reservations, call Jim Johnston at LF 4091.

From a Recent 'Air Force' Magazine. . .

"It is customary in democratic countries to deplore expenditures on armaments as conflicting with the requirements of the social services. There is a tendency to forget that the most important social service that a government can do for its people is to keep them alive and free."

*Sir John Cotesworth Slesor
Air Marshall, RAF, 1940*

CRA Tour Previews This Week

This Evening. A planning meeting and discussion for everyone interested in joining CRA Travel's group tour to Europe this summer will be held this evening starting at 7:30 in the CRA clubhouse. Come and help plan your own trip. Slides and refreshments.

Wednesday, February 6. The 7:30 p.m. meeting at the clubhouse is for all General Dynamics employees interested in CRA Travel's seven-day fly-cruise Caribbean trip in May. Slides and refreshments.

Join Ski Trip to Park City Feb. 9-16

Fly to and from Salt Lake City by chartered PSA jet and stay at the base of the slopes at Park City during the ski trip the week of February 9 through 16. (For a good look at Park City skiing, see this week's film.) Rates and accommodations vary. Call Roy Poston at LF 4100. The trip is being sponsored by the Convair Don Diego Ski Club.

Attend TV's 'Baxters with Bill Ballance' Feb. 13

Channel 8's "The Baxters with Bill Ballance" is the two-part show that begins with a half-hour dramatic segment and concludes with a half-hour of studio audience comment. You're invited to join the studio audience Wednesday evening, February 13, for the audience-comment segment. You should get to the studio at 7:15 p.m. for the taping, which begins at 8. That's at KFMB, 7677 Engineer Road. Complimentary wine and cheese will be served.

The General Dynamics group is limited to 50. Call Barbara Freeman, KM 2826, or Elaine Paras, KM 1691. The event is being sponsored by the Convair Management Association.

Weekend Trip to Reno-Tahoe Mar. 21-23

A show of hands is needed now so that arrangements can be completed for a weekend trip to Reno and Lake Tahoe March 21 through 23. The price per couple of \$340 (double occupancy) includes round trip by air and hotel accommodations in Reno. As an add-on, take a bus trip to nearby Lake Tahoe.

Reserve now by calling Bill Kramer at KM 2855. Trip sponsor is the Convair Management Association.

Get Discount on Mission Cable, HBO Installation

A discount of 33% on primary cable TV and Home Box Office installations is being offered to all General Dynamics employees by Mission Cable, through arrangements with the Convair Recreation Association.

If you're interested, call Mission Cable at this number only: 262-8661. Mention this CRA-Mission Cable offer and the code number D991.

Golf Deal Saves on Play at Eight Local Courses

Here's the deal from Golf International Safari. Pay \$32 for a limited Safari membership. That entitles you to play four times free at each of eight local golf clubs when you're accompanied by one or more golfers paying the full greens fee.

Memberships are transferable and they're valid all this year. For further information, call Don Early, LF 4656. Applications are at the CRA clubhouse.

Defensive Driving Course Starts Tomorrow

Enrollment is still open for the National Safety Council's defensive driving course, sponsored by the Convair Management Association. The six-hour course meets two consecutive Tuesday evenings, February 5 and 12, from 5 to 8 p.m. Call Sam Long for information at KM 1525.

Deep Powder Sparkles on Screen in 'Ski Park City'

This week's noontime movie may have you agreeing that Park City in Utah has the nation's best deep-powder snow. The twenty-minute film includes footage of ski great Stein Erickson in action.

At Kearny Mesa, showings will be on Wednesday in classroom 3 of building 17 at 11:00 a.m. and noon. At Lindbergh Field, showings will be on Thursday in the building 5 auditorium at 11:00 a.m., noon, and 7:30 p.m.

Employment

For the week ending January 27, employment was 8,983.

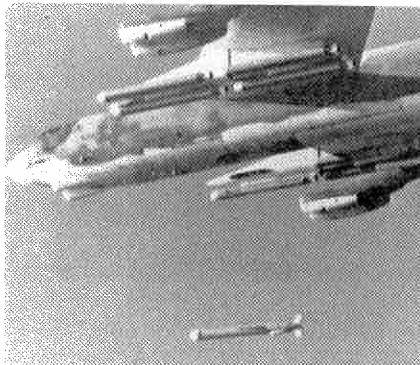
CONVAIR **Weekly Log**

February 18, 1980

*Published by the Convair Division of General Dynamics***Dr. Buchanan Comments on Our Air Launched Cruise Missile Program**

With the successful flight last week of our air launched cruise missile AL-5, we concluded the ALCM competitive test program on a high note. I want to extend my thanks and congratulations to all the people associated with the program for their dedicated efforts. I also want to remind you that the purpose of the test program was to demonstrate our design and its support operations, not just to conduct the flight tests. We demonstrated our ability to maintain and support the missiles in the field and integrated our AGM-109 into the B-52, something many people said we would have great difficulty doing. With the final production readiness review, we demonstrated our ability to produce missiles; with each of our reviews, we showed steady improvement in our readiness for production. The actual flight tests, even though all were not totally successful, provided good verification of our design. So we can all be proud of our accomplishments in many vital areas.

Now, the challenge before us is to transition this design into produc-



tion — with quality. Sid Wilkinson is leading this phase of our cruise missile programs. We have made considerable progress in tightening up our standards for engineering, producing, and inspecting production missiles to meet the demand that our product is right before it is accepted for delivery. We had some embarrassments during the test program, and those serve to emphasize once more how important it is that every employee concerned feel personally responsible for making sure that our missiles are right in every detail. We have learned from our

mistakes, and that knowledge is being applied to all our cruise missile programs.

We need to keep in mind the purpose of our ALCMs. The strategic nature of their mission demands that everything work right the first time. If they are ever needed, there is no opportunity to make fixes, no instant replays. ALCM is a vital part of our national defense capability. Our country is depending on us. That, in turn, means the country is depending on each of you to do the job right. We have met our challenges in the past and I know we are ready to meet them now.

At this time, the government is evaluating the results of the test program and the proposals by both Boeing and ourselves. Their objective is to determine which of the two systems can best meet the needs of the Strategic Air Command. I expect they will make that decision in late March. In any event, we can all take pride in our performance — we showed we could do what we said we could do.



Approved employee suggestions from Machine Shop (Dept. 015) people during December and January resulted in projected savings of over \$15,000. Winning ideas from all employees make a valuable contribution toward our getting the job done smarter, faster, and cheaper, as well as putting money into employees' pockets.

Above, some of the Machine Shoppers receive their certificates and checks. From left, they are John Monty, Charles Popp, Garth Johnson, Steve Galloway (rear), Elmer Glynn, Morgan Christian, and Rick Monroe. Also contributing, but absent for the photo, were Fred Steglic, Winston Strunk, Robert Rufing, James Wilson, Brenda Haley, Harry Abbott, and Arditia Anderson. Congratulations and keep those ideas flowing.

AIA Hollers for Hollar

Bill Hollar, engineering specialist in Quality Engineering (Dept. 310-0), recently received an outstanding service award from the Aerospace Industries Association (AIA). The AIA award acknowledges Hollar's management of a 33-member team of professionals representing 18 companies. Under Hollar's leadership, the team produced the "Quality Assurance in Computer Graphics/Numerically Controlled Processes - Handbook for Aerospace Machined Parts."

The 290-page volume, distributed nationwide, provides visibility of industry experience, knowledge, concerns, and needs in this area. Walt Gill, group engineer in Quality Engineering, stated, "A project like this not only achieves recognition for Convair, but provides valuable knowledge of related industry efforts as we apply advanced methods in house."

Bill is currently applying that knowledge to the computer-aided design/manufacturing (CAD/CAM) project to incorporate controls on the computer software and to interface newly procured computer coordinate-measuring machines to the CAM system.

Project sponsors were initially Jim Brown, manager of Computer-Aided Manufacture, followed by Don Miller, Quality Services manager.

CPL Pre-Exam Course Under Way

An extensive refresher program for employees planning to take the Certified Professional Logistician exam got under way at Kearny Mesa last week. Fifty people are enrolled in the ten-session program, sponsored by Integrated Logistics Support (Dept. 260). Certification and the exam are sponsored by the Society of Logistics Engineers. Prerequisites to taking the exam are nine years of logistics experience in at least two of four subject areas. Key to passing it, according to ILS Engineering manager Sandy Rosenthal, is a detailed knowledge of all aspects of the logistics profession.

Rosenthal and Vern David, also of ILS Engineering, are coordinators of the program. Instructors, about two for each session, are from ILS, supported by Contracts & Estimating and Configuration Management.

PRODUCTIVITY SNAG • Tip: Think Before Calling

Time is frequently wasted because callers don't think first before making a telephone call. Often, the result is having to make additional calls — to get information they forgot to ask for the first time or to give information they didn't have ready when it was requested.

Before calling: (1) Jot down all the topics you want to cover and group compatible items that are best discussed together. (2) Put these into a priority order in case the call is cut short. (3) If you are returning a call, consider what topics or information the original caller is likely to be interested in. (4) Have available material, such as procedures, reports, and drawings, to which you will need to refer during the conversation. (5) Have nearby tools, such as a calculator, that you are likely to use. (6) Consider if you are making your call at an appropriate time. (7) Consider if somebody else will be able to help you if the person you're calling isn't there. (8) If the per-

son isn't in when you call, tell whoever answers what the call concerns. The person will then have the answer you need when he or she returns the call. Otherwise, the callee may tell you that he/she will call back again when the information you want has been collected, and the whole I-call, you-call cycle repeats.

Remember — think before calling. Maybe you'll need only one call instead of three.

KM to East County Buspool Forming

Commuter Computer is coordinating efforts to provide direct express bus service for Kearny Mesa employees in the El Cajon-La Mesa area. The first-shift bus, serving employees in the 7 a.m. to 3:30 p.m. work period, would leave from an as-yet undetermined location in east El Cajon and pick up as well near Grossmont Center. Projected cost per person is about \$7 per week; that beats gas and other private car costs by a mile.

Forty advance reservations are required to start the bus service. If you are interested, call Commuter Computer at 237-POOL and request that your name be placed on the Kearny Mesa buspool reservation list. Commuter Computer can also help if you wish to join a carpool or form a buspool from any area.

Retirement Planning Seminar Here Feb. 23

"Pre-Retirement Planning" is the subject of a one-day seminar to be conducted by the San Diego Community College on Saturday, February 23, at the Kearny Mesa plant. Jointly sponsored by Employee Benefits and Educational Services, the seminar will cover a complete range of retirement planning subjects. Enrollment is free and is open to all employees and their spouses. Reservations are first-come, first-served, and may be made by calling Vivienne Pollard at KM 2267.

Security — Do's and Don'ts

Always arrange for the appropriate destruction of Department of Defense classified material through Security Control Stations (there's one near you).

Never place Confidential, Secret, or Top Secret material in a burn barrel for destruction. If you have any questions about handling DoD classified material, review your Division Security Manual or call Industrial Security (KM 1471).

GD Sales, Earnings Set Records

David S. Lewis, General Dynamics president, recently announced record full year and fourth quarter sales and earnings performance for 1979. Sales last year reached a new high of \$4.06 billion, up 27% over 1978 sales. Also a record, 1979 earnings were \$185 million, equal to \$6.85 per share. Fourth quarter sales were \$1.09 billion and earnings were \$57.7 million, or \$2.14 per share. Funded backlog at year end was the largest in General Dynamics history at \$11.5 billion, up 14% from 1978.

Veliotis Named Executive VP - Marine

P. Takis Veliotis, General Dynamics vice president and general manager of the Electric Boat Division, has been named executive vice president - Marine by the corporate board of directors. Veliotis will be responsible for Electric Boat Division operations at Groton, Connecticut, and Quonset Point, Rhode Island, and Quincy Shipbuilding Division operations at Quincy, Massachusetts, and Charleston, South Carolina.

VOLUNTEERS SOUGHT

Help Restore a Sea Dart • Help a Scout Troop

Volunteers are needed for the two-weekend restoration project of patching and painting a Sea Dart aircraft. It will be presented to the rebuilt Aero-Space Museum by sponsor of the project, the Convair Management Association. The Sea Dart (four of them were built by Convair in the early 1950s) was the first delta-wing seaplane and the first water-based aircraft to fly faster than sound. To volunteer, call Frank Signorelli at LF 4550.

The CMA-sponsored Boy Scout troop needs a troop leader who can spare about three hours per month (yes, month) for the job. Contact Bill Mears at LF 4312 or Frank Signorelli at LF 4550.

Pack Up for Alaska, Rafting, Mazatlan

Here's advance word on three upcoming trips sponsored by the Convair Management Association. For details, call Shirley Nowlin at KM 1163.

Alaska Cruise. Six cabins are left (\$980 and \$1,095 categories) for the seven-day Alaska cruise departing June 12.

Rafting Trip. Have more fun than Huck Finn as you raft down the American River over the Memorial Day weekend, May 24-25. Last year's group had a grand time. Sleep under the stars. The price of \$180 per person includes round trip to the river, two days of rafting, and meals en route. There's room for only 26 and Shirley needs your deposit of \$100 as soon as possible.

Mazatlan. The Mazatlan trip will be over the Labor Day weekend, from August 28 to September 2. The price of \$350 per person (double occupancy) includes transportation, five nights at the Playa Mazatlan, city tour, tips, etc. Get your \$100 deposit to Shirley soon because she has room for only 32 people.

From CRA Travel: Europe, Caliente

Europe. There will be a meeting on February 25, in the CRA clubhouse at 7:30 p.m., for all those interested in the Europe '80 tour.

Caliente. Saturday, March 1, is the date of a CRA Travel trip to the horse races at Caliente. The price of \$20 per person includes round trip by chartered bus, reserved seats, brunch, and margarita. Make reservations at the CRA clubhouse.

Still Space for Trip to Reno Mar. 21-23

While space is available, all Convair employees and their friends are invited to join the weekend trip to Reno on March 21-23. The round trip is by PSA jet, leaving San Diego Friday at 1 p.m. and Reno on Sunday at 8 p.m. The price per couple of \$340 includes air fare and accommodations downtown. Reserve by February 22. Call Bill Kramer at KM 2855. Trip sponsor is the Convair Management Association.

Disneyland Update. Tickets Limited • Buses

This year, we have only 9,000 tickets instead of the 15,000 that were available in past years. Couple that with the fact that Disneyland is traditionally a sellout event and the message is clear: avoid disappointment and get your tickets early. They're being sold first-come, first-served, and must be bought here; none will be sold at the park. Tickets are \$5.75 per person (children two and under are admitted free). The price includes admission, all attractions (except shooting galleries), shows, and parking. For sales locations, see posted flyers or call Jody at LF 4142.

Roundtrip buses will operate between the Kearny Mesa flagpole and Disneyland. Bus tickets are \$6.50 each, available at Convair wherever Disneyland tickets are sold.

Remember — the Disneyland family fun party is on Saturday, March 15, from 8:30 p.m. till 1:30 a.m. on Sunday. The event is being sponsored by the Convair Management Association.

Communication Skills — Equal Time Dept.

Last Week's Bluesheet noted that you can improve your communication skills at the Convair Toastmasters Club. There are *two* Toastmasters Clubs at Kearny Mesa. The Dynamic Toastmasters Club (no. 457) meets every Thursday at 5:00 p.m. in room C at the CRA clubhouse. Guests are always welcome at any meeting. Come and see for yourself how you can improve your speaking abilities.

Nostalgia of Small-Town America in Week's Film

Thursday afternoons, stores don't close in Lynchburg (pop. 361), Tennessee — the whole town does. "Closed Thursday Afternoon" takes a leisurely look at the townsfolk as they go fishing, tell whoppers at the general store, or keep on snoozing.

At Kearny Mesa, showings will be on Wednesday in classroom 3 of building 17 at 11:00 a.m. and noon. At Lindbergh, showings will be on Thursday in the building 5 auditorium at 11:00 a.m., noon, and 7:30 p.m.

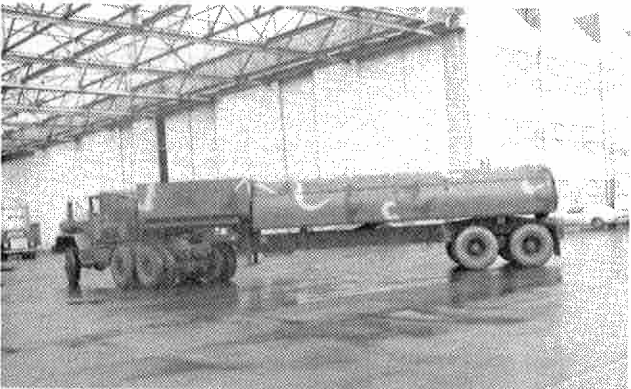
Employment

For the week ending February 10, employment was 8,920.

CONVAIR Weekly Log

February 25, 1980

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(top) Employees of Experimental (Dept. 031) gather in front of their handiwork in building 2 at Plant 19. To their left are Dr. Buchanan; Mitch Shapiro, Production Control; Don Tibbs, department supervisor; Jim Gray, designer; and Bob Johnson, TEL product manager. (bottom) The transporter-erector-launcher rolls out at Plant 19, where it was built.

Key Element in GLCM System Delivered

The launcher box of the transporter-erector-launcher (TEL) engineering test unit for the ground launched cruise missile system was delivered last week at Plant 19. The unit will be used for test and evaluation at the Utah Test and Training Range near Dugway.

The Convair-designed and -built launcher box is the trailer-mounted unit in the photo above. Its internal structure, called the strongback, holds four GLCMs. The sides and aft end of the launcher box provide armor protection. The complete TEL system also includes an actuator to raise the launcher, the monitor and control electronics, and the power supply. The electronic equipment is housed in an environmentally shielded enclosure just ahead of the launcher box.

Lindbergh Field Salvage Yard Sale Mar. 1

The sale will be from 8 a.m. to noon. You'll find desks, chairs, building material, and scrap lumber. Use the Washington Street entrance. So that you can get in, please remember: bring company ID, wear sturdy shoes, and be sure those accompanying you are at least 16 years old.

Orsborn and Kao Present Paper

Presenting a paper at the 109th annual meeting of the American Institute of Mining Engineers in Las Vegas this week are Mac Orsborn, Manufacturing Technology (Dept. 471), and Wei Kao, Materials & Processes (Dept. 632). Their talk is titled, "Consolidation Characteristics of Rotating Electrode Process and Hydride Titanium Powders." This paper is their second on the subject.

Proposal Wins at 73% in 1979

Last year, we again had an outstanding year in competing for new business. We had 64 proposal decisions and won 47 of them. These included small studies such as ballistic missile propulsion, major new high-

technology thrusts such as the digital integrating subsystem, and design and production programs such as Boeing's 767 engine struts.

The 73% in 1979 is the third best year we've had since establishing the Proposal Development Group. In the last six years, our record is 61, 62, 68, 77, 82, and 73%. It has steadily increased since we first dedicated personnel to proposal discipline in the mid-60s. During those early years, we won about 30% of our bids.

Winning will be tougher in the 1980s. Jim Robertson, vice president of Marketing, says, "The competition is getting harder and we're bidding in many new and challenging areas. Also, we've got many programs going that compete for our key personnel.

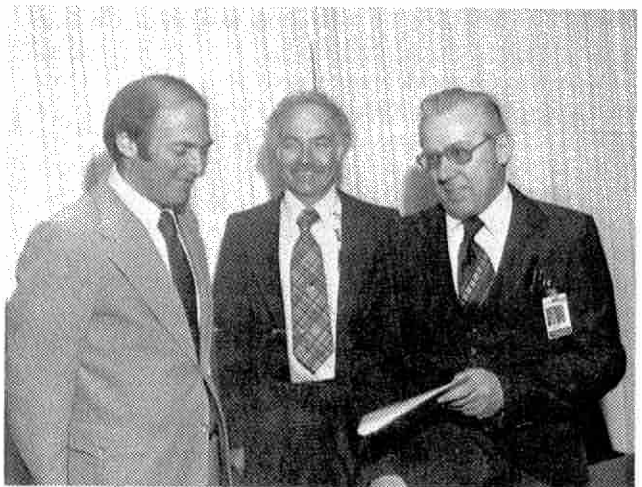
"To win in the 1980s, we've got to be even more disciplined. We have to get upstream of the request for proposals, to establish and keep up technical interchanges with our potential customers, right up to RFP time. And we've got to keep our technical minds open and innovate as never before. Each time we make a decision to bid, we must be willing to dedicate the resources — dollars, people, and leaders — necessary to ensure ourselves of a winning proposal.

"Moreover, we're going to have to develop new data banks and streamlined procedures. We'll have to learn to live with fewer opportunities that require more effort. We have to be prepared to submit much more detailed and extensive data for each bid. New government regulations such as A-109 will exert a tremendous influence on what it takes to bid on new programs of the future.

"What this all adds up to is that competing in the 80s will be a great challenge; but we intend to compete and win. To do this, we're going to have to continue to put out tremendous efforts on proposals. Turning out a winning proposal is a team effort that requires creative thinking under demanding conditions. All of those who work on our proposals deserve a great deal of credit for the successes we've had, but future successes will require an even greater effort by all those involved."

Help Zap Convair's Electric Bill

Did you know that almost one quarter of Convair's monthly expense for electricity is incurred during the peak demand period? During February, March, and April, that period usually falls between 5 and 7 p.m., with the peak around 6 p.m. You can help Convair cut costs during that time by turning off the lights when you leave work. And when possible, schedule large electrical loads outside the 5 to 7 p.m. window.



Dick Maxa (right) receives a check for \$852 and Employee Suggestion award from Marty Winkler (left), Avionics Lab (Dept. 625), and Harry Eastman, Space Avionics and Test Equipment (Dept. 623). Maxa suggested a simple modification that deleted several components from the range safety command system of Atlas E/F space vehicles.

ALCM Painting Missing

The painting of our AGM-109 as it is launched from a B-52 bomber is missing from its location at the west end of the KM building 5 mezzanine. It may have been removed for a reason and not yet returned. Whoever has it, please put it back.

PHd Car Renters — Call When Finished

We recently reminded anyone who is using a PHd rental car in the San Diego area to call PHd immediately when he or she has finished using the car. That is the time at which the rental charge stops. Here's another reminder. Because one of our employees forgot to call right away, his department was charged for two extra days of car rental. His boss was overjoyed.

PRODUCTIVITY SNAG • Telephone Usage

One topic guaranteed to stir up the letter-to-the-editor writers is how we use the telephone. After some suggestions aimed at more productive use of the telephone, we received several requests from highly irritated phone users to please print their suggestions about telephone use. Here are their ideas:

- We said if you answer an unattended phone that is ringing nearby, you would find a grateful caller, pleased that someone answered the phone in the absence of the person being called. One writer said, "It's very seldom that I find the 'grateful caller.' Since the person being called isn't there, I ask if I may take a message, and I usually get the 'third degree' instead. 'Where are they? When are they comin' back? Is he in a meeting?' This is a waste of both our times, since I don't know."
- Along the same lines, another writer said, "Unless you are on a very friendly basis with the person on the other end, that person probably does not appreciate being called 'Doll,' 'Sweets,' 'Dear' or 'Honey.'"
- "It is helpful if the caller identifies himself or herself before proceeding with a request."
- "I dearly wish people who *answer* would immediately identify themselves. It's much more personal to know the name of the person I'm talking to, even if they're answering the phone for somebody else."
- "If you're told that the person you're trying to reach is not available, leave a message. Don't keep calling every five or ten minutes."
- One person offered a simple rule of thumb (it has a familiar ring): Treat people answering (or calling on) the phone in the manner in which you would like to be treated. What does this have to do with productivity? People aren't in a productive mood, on either end of the phone, if they're barked at, feel poorly treated, or are frustrated by frequent and unnecessary interruptions or by their inability to get a response. On top of that, they may not be getting the information they need. As in most things, courtesy, understanding, and respect for the other person go a long way.

Two New Management Courses Begin in March

All employees are invited to attend these National Management Association courses. Reserve early, though, because attendance at each is limited to 12 people. The courses are free for CMA members and count toward the CMA Management Skills certificate. Nonmembers pay a fee of \$3 per course.

Practical Supervision. Provides a down-to-earth exchange of ideas about handling people-to-people problems at the first-line supervisory level. Participants listen to taped conversations and then are led in a discussion about what they have heard.

The course will be held on March 12, 19, 26, and April 2 from 4 to 5:30 p.m. at Kearny Mesa in building 17, classroom 2. For details and reservations, call instructor Byron Bourguignon at KM 2711.

Principles of Managing. Introduces the principles of managing and develops an appreciation for professional management. Emphasis is on the need for knowing how to manage.

The course will be held March 13, 20, 27, and April 3

and 10, from 4 to 5:30 p.m. at Lindbergh Field in building 14, room 6. For details and reservations, call Klaus Flitner at LF 4340.

Car-Pooling Puts Money in the Cookie Jar

Here's how to get graphic evidence that driving alone to work is costing you dearly. Estimate your weekly cost for gasoline, then double that figure to account for other costs related to actual driving, such as oil, tires, and maintenance. If you join a car pool, you save that much every day you don't drive to work.

Here's an example. You live 15 miles from work, and your car gets 15 miles per gallon. The round trip takes two gallons per day or about \$2.60. Double that to get \$5.20. Join forces with only one other person to form a two-person car pool. Put \$5.20 into the cookie jar every other day, when you don't drive. At the end of six months, take out \$320 and you and the spouse fly off to San Francisco for your own all-expenses-paid vacation. Keep it up and in another six months, you can treat yourselves to a big weekend in Las Vegas. All that with only a two-person car pool.

Headlights On = Batteries Off

In this blustery season, headlights are left on and resulting dead batteries require jumper cables or tow trucks. Remember to turn off car lights before you head in for work. One employee, after a jumper-cable experience, decided to leave his business card visible on the dash. Next time he left his lights on, a fellow employee was able to contact him, and he was saved the inconvenience of a drained battery.

Bill Fowler, supervisor of Plant Protection, advises against leaving a full identification on your dashboard, since this may be useful information for housebreakers. They know where you'll be for eight hours. He suggests leaving only your last name and extension visible on your dash, so that fellow employees or Plant Protection officers can contact you quickly if needed.

Free 'Investing in Gems' Seminar Mar. 5

A free seminar titled "Investing in Gems and Precious Metals" will be conducted from 5 to 7:30 p.m. on Wednesday, March 5, in the Kearny Mesa cafeteria by Terry Evans, owner of Evans, Limited, Fine Jewelry and Gems, in San Diego. All Convair employees, their families and guests, are invited. Topics will include the place of the small investor in the gems and precious metals market and the tax advantages of investing in gems and gold.

The seminar will include a display of gems (watched over by a no-nonsense guard), refreshments, and a valuable door prize. For reservations, call Linda at KM 1525.

Disneyland Tickets Limited and Selling Fast

This year, we have 6,000 fewer tickets than in past years. They're being sold first-come, first-served and must be bought here; none will be sold at the park. For sales locations, see posted flyers or call Jody at LF 4142.

Roundtrip buses will operate between the Kearny Mesa flagpole and Disneyland. Bus tickets are \$6.50 each, available at Convair wherever Disneyland tickets are sold.

If you wish to stay overnight in the Disneyland area, please make your own arrangements for accommodations. (It was not possible this year to set aside a block of rooms for General Dynamics people.)

Remember — the Disneyland family fun party is on Saturday, March 15, from 8:30 p.m. till 1:30 a.m. on Sunday. The event is being sponsored by the Convair Management Association.

Week's Film Highlights Industrial Uses of Rubber

"Engineering with Rubber" shows how rubber is tested for design applications and used to solve many engineering problems. This detailed look at the substance is a good film for design engineers or anyone interested in the industrial uses of rubber.

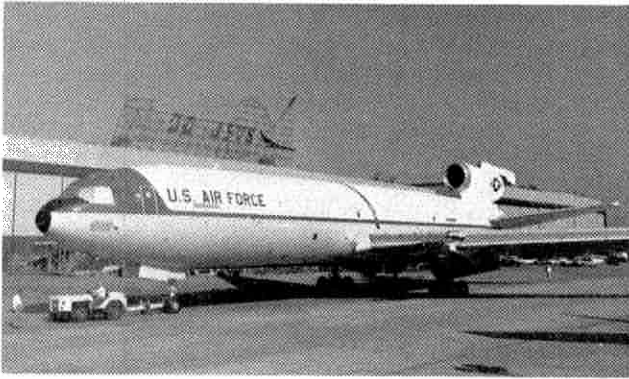
At Kearny Mesa, showings will be on Wednesday in classroom 3 of building 17 at 11:00 a.m. and noon. At Lindbergh, showings will be on Thursday in the building 5 auditorium at 11:00 a.m., noon, and 7:30 p.m.

Employment: For the week ending February 17, employment was 8,909.

CONVAIR Weekly Log

March 3, 1980

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First KC-10A in Air Force Markings

The DC-10 people at Lindbergh Field may not recognize it right off, but that's their handiwork under the paint. That brand new paint job glistens on the first U.S. Air Force KC-10A Advanced Tanker/Cargo Aircraft, shown above leaving the McDonnell Douglas paint shop on its way to final assembly in Long Beach. The aircraft will begin an extensive flight test program this spring. The Air Force has ordered six and plans to buy 14 more of the aircraft, a military derivative of the intercontinental DC-10 Series 30 convertible freighter.

GETS HIGH MARKS

Machine Operator Training Program Concludes

A machine operator training program sponsored by the International Association of Machinists and Aerospace Workers (IAM & AW) and the Regional Employment and Training Consortium (RETC) concluded last week. The 28-week program was held at Convair. Rohr and Solar also participated as primary employers of the trainees.

RETC program evaluation team members stated that this was one of the most successful such programs ever held, thanks to the efforts of departmental supervisors, group leaders, and the trainees.

The first phase of the program, comprising eight weeks of classroom work at Plant 19, was coordinated through Educational Services (Dept. 133-1) and John Williams of Experimental (Dept. 031) were the instructors for the first phase.

Those who successfully completed the first phase were hired as trainees and then received 20 weeks of on-the-job training. Of the 215 trainees entering the second phase, Convair hired 105, who went to work in Machine Shop (Dept. 015), Sheet Metal (Dept. 001), Experimental (Dept. 031), and Tool Service (Dept. 460).

Congratulations to everyone concerned for making this big program a big success.

Tax Forms Now Available at LF and KM

Federal and State tax forms may be picked up at Lindbergh Field in building 16, Employee Benefits, and at Kearny Mesa in the main lobby (building 2).

CONVAIRITES KEY PARTICIPANTS

Attend Quality Control Conference March 22

The 18th annual Technical Conference and Workshop of the American Society for Quality Control will be held on March 22 in the Aztec Center at San Diego State University. Conference chairman Frank Piersall invites everyone interested to attend. This year's theme is "Lack of Quality: Who's to Blame?"

Mike Gayle is conference arrangements chairman. He and Frank are both in Procurement Quality Engineering (Dept. 320). Ted Lamoureux, head of Failure Analysis (Dept. 330), will give a talk titled "Failure Analysis: A Quality Approach" during the morning session.

If you wish to attend, call Frank (KM 2443) as early as possible. Attendance is limited.

SAFETY SPOTLIGHT



"It was some cleaning solvent she had brought from home!"



Members of Logistics Planning & Analysis (Dept. 261-0) receive a group EXCEL award from Sandy Rosenthal (right), manager of Integrated Logistics Engineering. From left: Bill Scannell (supervisor, who nominated the recipients), Henry Thomas, Rick Jurmain, Larry Walker, Nolan Squier, Gary Chapel, Chuck Warneke (team leader), and Rosenthal. Logistics received the award for applying the general-purpose system simulation (GPSS) program to major cruise missile simulation work. Their effort was recognized by our customers with increased award fees.

DC-10 Fuselages Delivered

DC-10 fuselage 332 was delivered to McDonnell Douglas on February 24. High seas delayed the barge that transported the fuselage to Long Beach. The second fuselage (no. 333) for an Air Force KC-10A tanker was delivered last Friday, on schedule.

THANKS EXTENDED

In-Plant Blood Drive Begins March 17

The next in-plant blood drive, conducted by the San Diego Blood Bank, will begin on March 17. Details will follow.

Very special 'thanks' are extended to the many Convair employees who have credited their blood donations to the Convair Blood Reserve account. This personal and important gift is appreciated by all of your fellow employees.

New AVO Pads Available at Commercial Stores

A new form for AVOs (Avoid Verbal Orders) without lines is now available, thanks to the approved employee suggestion by Patty Hall, Advanced Optics (Dept. 611). The new form, which will be more convenient for typing, is available from Commercial Stores. Ask for form A1280-1, material number 321-976464.

Call Kramer if You're Taking Reno-Tahoe Trip

All people who have made reservations for the March 21 to 23 trip to Reno and Lake Tahoe area: it is important that you call Bill Kramer (KM 2855) so that he can complete arrangements for the trip.

Buy Disneyland Tickets Through Payroll Deduction

If you're short on cash now, but want to be sure you get Disneyland tickets while they are still available, here is a simple solution. Get your tickets now and pay later through a payroll deduction. Fill out a payroll deduction card, available from ticket sales personnel, when you purchase tickets. This authorizes your payroll department to automatically deduct the amount from your check.

The Disneyland family fun party begins Saturday, March 15, at 8:30 p.m., and lasts till 1:30 a.m. on Sunday. The event is being sponsored by the Convair Management Association.

Gem Market Tips at Free Seminar March 5

Attend the free seminar "Investing in Gems and Precious Metals" and learn the many facets of the market and the tax advantages of investing in gems and gold. The seminar, conducted by Terry Evans, owner of Evans, Limited, Fine Jewelry and Gems, in San Diego, will be on Wednesday, March 5, from 5 to 7:30 p.m. in the Kearny Mesa cafeteria. A display of gems, refreshments, and a valuable door prize will be included.

All Convair employees, their families and guests, are invited to attend the event, sponsored by Convair Management Association. For reservations, call Linda at KM 1525.

Discount for 'Big Broadcast' Premiere March 25

Harry James, Dennis Day, the Ink Spots, and Don Wilson are among the headliners who recreate those great old days in "Big Broadcast of 1944," which premieres at the Fox Theater downtown the evening of March 25. All General Dynamics employees, their families and friends, can get regular \$16.50 opening night tickets for \$11 from Dave Miller (KM 3010). Dave also has reserved seats for April 4 and 5 at \$16 and \$17.50. The ticket sale is sponsored by the Convair Management Association.

50% Off Rooms at Los Angeles' New Otani Hotel

The New Otani Hotel & Gardens in downtown Los Angeles is offering all General Dynamics employees a discount of 50% for standard rooms on Friday and Saturday nights. The regular rates at the luxurious, Japanese-accented Otani are \$58 single and \$68 double. For details, call Don Early at LF 4656.

Exercise for Fitness in HFC Class

Attaining and maintaining physical fitness and health are the goals of a three-part class at CRA Health-Fitness Center. An expert instructor leads the class in a 20-minute warmup, exercises, aerobic training, and a five-minute cooldown. Fitness profiles will be made at the start and conclusion of the course to determine each participant's degree of progress.

The course starts March 10. It will be held in the Missile Park Picnic Pavilion from 4:30 to 5:15 p.m. The cost is \$20 for center members and \$25 for nonmembers. Call Sheryl Marks (KM 1111) for more information.

Free Rock a'Robics Today and Tomorrow

More free Rock a'Robics classes will be offered today at 4:30 p.m. and on Tuesday, at 9:30 a.m., 4:30 and 5:20 p.m., in the CRA auditorium. For more information, call the CRA (KM 1111), or instructor Pam Koch at 276-3559.



Caught during rehearsal, these are some of the General Dynamics employees in the cast of "Fiorello." Left to right: Mike Britt, Bob DeLillo, Wes Vick, Lynn Huff, Jake Jacobson, and Simon Padilla. The musical comedy depicting city politics in the Big Apple will run through March in the CRA Theatre. Performances are scheduled every Friday and Saturday night and on Sunday afternoons. Advance tickets may be obtained from the CRA box office, Bob Bowman (KM 2798), or any cast member.

Blackjack Dealers Sought for CMA Las Vegas Night

About 20 CMA members are sought to deal blackjack March 26 at the Las Vegas Night meeting of the Convair Management Association. If you are interested, call Don Early (LF 4656) or Jack Velton (KM 1489).

Toastmasters at Lindbergh Selects Officers

The Toastmasters Club at Lindbergh Field elected temporary officers at the February 14 meeting. They are Tommy Thomas, president; Wally Schmidt, educational vice president; Jim Johnston, administrative vice president; Donna Green, secretary; Lucy Breakfield, treasurer; and Rick Buchner, sergeant at arms. Toastmasters meets at Lindbergh Field every Thursday, 5 to 7 p.m., in the cafeteria. Everyone is welcome.

Europe '80 Trip — Reserve Space by March 7

The latest date to make guaranteed reservations for Europe '80 is March 7. CRA Travel advises that space is going fast on this economy tour package. The 24-day tour, visiting 11 countries, is priced at \$1,659 per person (double occupancy). Call CRA Travel, 278-1177.

HFC Dietician Plans Nutrition Counseling

A registered dietician, new advisory member at the CRA Health-Fitness Center, will arrange appointments for nutrition counseling at the center on March 4 and 5 from 11 a.m. to 1 p.m. and again from 4 to 6 p.m. Cost of the nutrition counseling program is \$10 for CRA Health-Fitness Center members, \$12 for nonmembers. Stop by to make an appointment and pick up a free low-calorie recipe or call the center (KM 1111).

PROJECTIONIST SOUGHT

Freedom Is Theme of NATO Film Shown This Week

This week's film, "Lives," unfolds the dreams and hopes of five individuals representing the aspirations of the 600,000 citizens of the member countries in the North Atlantic Treaty Organization. Narrated by Alexander Scourby, this 28-minute color movie emphasizes a commitment to preserving freedom.

At Kearny Mesa, showings will be on Wednesday in classroom 3 of building 17 at 11 a.m. At Lindbergh, showings will be on Thursday in the building 5 auditorium at 11 a.m. and 7:30 p.m.

The noon showing at KM will not be held this week because there's no projectionist. If you want to run the 16-mm projector for the KM noon showing every week, call Bob Gobrecht at LF 1525.

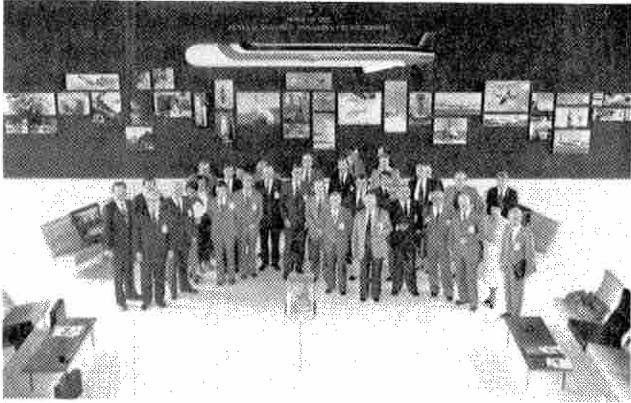
Employment

For the week ending February 24, employment was 8,901.

CONVAIR Weekly Log

March 10, 1980

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NATO Defense Parliamentarians Visit Convair

Members of the Committee on Defense Questions and Armaments of the North Atlantic Treaty Organization visited Convair last Monday for a briefing on the ground launched cruise missile (GLCM). The 34 NATO parliamentarians also toured the B-52 mockup and Tomahawk final assembly areas at Kearny Mesa.

Their visit reflects the growing interest that government officials within NATO have taken in our ground launched cruise missile program following the decision last December to deploy 464 GLCMs and 108 Pershing II missiles in Europe as part of NATO's theater nuclear force modernization.

IE Personnel Complete Training Program

Nine Industrial Engineering (IE) employees recently completed a 16-session training program at Lindbergh Field titled "Industrial Engineering — How To Do It." The course covered several subjects including scheduling, manufacturing planning, learning curves, and methods improvement.

Instructor Don Evanson of Industrial Engineering was assisted by Jack Cooper, Scheduling; Dave Hall, Facility Planning; Mike Hersh, Manufacturing Technology; Bob Hinck, New Business Proposals; George Williams, Factory; Bill Wise, Plant Services; and Bill White, Crewloads. The program was offered to all Lindbergh Field IE personnel with less than one year's service with Convair.

Give at In-Plant Blood Drive Next Week

A special five-day blood drive at Convair San Diego area plants will be held March 17 and 18 at Kearny Mesa, March 19 and 20 at Lindbergh Field, and March 21 at Plant 19. Employees will have the opportunity to replenish our Employees Blood Reserve Fund or establish membership in the Blood Assurance Plan Donor Club sponsored by the San Diego Blood Bank. Membership in the Donor Club ensures you or your eligible family members an unlimited supply of blood when transfusions are received in San Diego County. In addition, the Blood Bank processing fee is waived for these transfusions.

Employees wishing to participate should contact Employee Benefits at KM 3194 or LF 4001 to arrange appointments. Employees at Plant 19 should call KM 3194.

Management Course Begins Next Week

The major activities and skills of a good manager will be covered in "Interpersonal Skills for the Manager," a management course that will meet on consecutive Tuesday evenings beginning March 18. The seven-week course, sponsored by the Convair Management Association, counts toward a Certified Manager certificate. Classes will meet from 4:30 to 6:30 p.m. in conference room K10 of building 4 at Kearny Mesa.

Class size is limited to eight. All employees are eligible to attend. Contact instructor Jim Mathews (KM 1491) for reservations. Books and materials are free to CMA members; nonmembers should contact the instructor for more information.

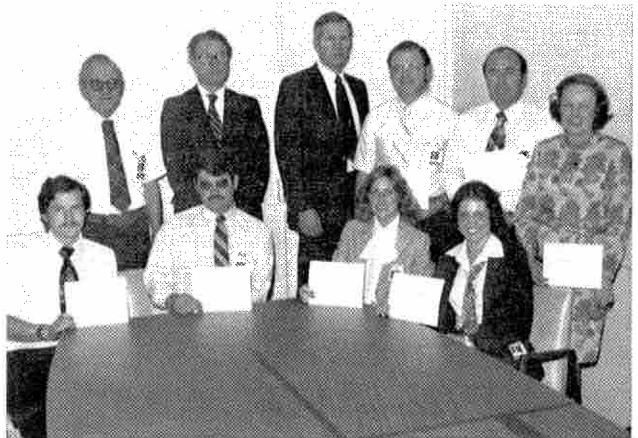
DON'T FORGET

**YOU NEED A
PROPERTY PASS
TO REMOVE ANY
MATERIAL OR EQUIPMENT
FROM THE PLANT!**

Property Pass Lets Material In or Out

Material removed from company property requires a property pass, which must be presented to the guard at any plant gate. Material coming into the plant, such as vendor hardware or demonstration equipment, also requires a property pass (category 5). Save yourself time; ask visitors in advance if they will bring in any material.

Please fill out the proper forms correctly and have them signed by an authorized person. For capital equipment, use Facilities Work Order (FWO) form 5140. For details, see SP B-33 and Security Manual A-50 and A-51.



Displaying their certificates noting completion of the recent Industrial Engineering training program are, front row from left: David Bauman, Doug Fenstermacher, Connie Bursher, and Connie Rosano. Back row from left: instructor Don Evanson; Norm Pearl, chief of Industrial Engineering at LF; Ed Squires, director of Industrial Engineering and Scheduling; and Neal Hearn, Troy Shook, and Margo Hunter. Also completing the course were Mel Davis and Luis Martin.

Johnson, Smothers on Team in 24-Hour Relay

Rod Johnson, at Lindbergh in the General Dynamics Service Company, and Jack Smothers, at Kearny in the Convair Art & Editorial Department, were members of the San Diego Track Club men's 50+ team in the 24-hour relay held on the Grossmont College track from 9 a.m. Saturday, March 1, to 9 a.m. Sunday morning. A total of 25 teams took part.

The two were on a team of eight members, instead of the normal ten, which meant more running and less rest. Wayne Zook, a Convair employee now retired, was a

member of the men's 60+ team, which set a world's record. "The 24-hour relay is a great event if you like to stay out all night," commented Smothers.

PRODUCTIVITY SNAG: Instructions That Are Unclear

I know you understand what you think I said; but I am not sure you realize that what you understood is not what I meant!

Unclear and untimely instructions to employees cause a 25% productivity loss in business, according to a recent study.

Effective communication between employees doesn't just happen — we all have to work at it. If we don't, the results can be costly: missed deadlines we weren't even aware of; missing important meetings we never knew about; scrapped parts; even unsuccessful launches. Here are some tips to help make instructions clear.

- Be specific. When you say you want something by 3 p.m., do you mean today or tomorrow?
- Use language everyone will understand in the same way. Words and expressions may not have the same meaning for everybody. How fast is fast? Or do you mean to stop eating? And while acronyms are useful shortcuts, they are gibberish unless all concerned know what they stand for. "Just give me a ROM on the TSD FSD ASAP" may get you what you want. Then again, maybe not.
- Don't expect people to read your mind. Spell out precisely what you mean.
- Cover all the essentials. If you give clear instructions but forget to specify when the task is to be completed, don't be surprised if it isn't done when you expected it.
- Check assumptions and agree on what is expected. "I thought you meant . . ." is an old standby. How much easier to have checked at the start: "Is this what you mean?"
- Ask and answer questions. An abrupt, "Just do it; I don't have time to go into it," is an invitation to disaster.
- Write it down. Oral understandings have a nasty way of getting cloudy with time, like about five minutes. Or haven't you ever forgotten a person's name, right after you were introduced?

Got any more favorite productivity snags? Send them to Internal Communications, MZ 11-1330.

Slots Still Open for Blackjack Dealers March 26

There are still a few slots open for interested CMA members to deal blackjack at the Las Vegas Night meeting of the Convair Management Association on March 26. If you would like to try your hand, call Don Early (LF 4656) or Jack Velguth (KM 1489).

Wednesday Last Chance for Disneyland Tickets

Wednesday is the last day you can get Disneyland admission tickets. Better hurry while tickets are still left. They're available at all outlets (and by payroll deduction, if you prefer). Our allocation of bus tickets has sold out.

The Disneyland family fun party begins Saturday, March 15, at 8:30 p.m., and lasts till 1:30 a.m. on Sunday. The event is being sponsored by the Convair Management Association.

Shapeup Exercise Class Starts Today

The first session of a shapeup exercise course will be tonight from 4:30 to 5:15 p.m. in the Missile Park Pavilion. Instructor Sheryl Marks will give a brief course overview at the first meeting.

The three-part exercise classes include a warmup, exercises and aerobic training, and a cooldown. Fitness profiles precede and follow the course to measure each participant's degree of progress. The cost for this Health-Fitness Center course is \$20 for center members and \$25 for nonmembers. Call Sheryl (KM 1111) for more information.

First Softball Managers Meeting March 12

Softball league play begins after Easter for the CRA Softball League. Team managers planning meetings will be on Wednesday, March 12 and March 19, at 5 p.m. in the CRA clubhouse. Team managers must attend all meetings in order to participate in the league. Contact Tom Falconer, KM 6154 or 3306.

Play All Year With Golf Safari Deal

Golf International Safari's limited membership entitles you to play four times free at each of eight local golf clubs when you are accompanied by one or more golfers paying the full greens fee. Golf Safari membership costs \$32.

Memberships are transferable and are valid through 1980. For more information, call Don Early (LF 4656). Pick up applications at the CRA clubhouse.

Free Use of Seas Is NATO Film Topic

This week's film, "The Great Highway," is a NATO film depicting NATO's year-round task of maintaining the right to free use of the high seas for communications and merchant ships. The film also shows how the Soviet naval presence is monitored by NATO naval command forces.

At Kearny Mesa, showings will be on Wednesday in classroom 3 of building 17 at 11:00 a.m. and noon. At Lindbergh, showings will be on Thursday in the building 5 auditorium at 11:00 a.m., noon, and 7:30 p.m.

Employment

For the week ending March 2, employment was 8,862.

CONVAIR Weekly Log

April 7 1980

Published by the Convair Division of General Dynamics

Defense Department Announcement on MRASM

(The following is the text of a Department of Defense press release issued in Washington, D.C., on April 2.)

The Department of Defense has taken several management actions to add a tactical medium-range, air-to-surface missile (MRASM) to its strike warfare systems as soon as possible. The actions were outlined in a March 27, 1980, memo from Undersecretary of Defense for Research and Engineering Dr. William J. Perry to the Secretaries of the Navy and Air Force and the Director of the Department of Defense's Joint Cruise Missiles Project Office (JCMPO).

The JCMPO has been directed to manage development of MRASM for the Navy and the Air Force. MRASM will be an extremely accurate non-nuclear tactical missile with a maximum operational range of about 300 miles. It could be launched from a variety of aircraft such as the A-6E, F/A-18, P-3, F-16, and F-111 against ships and a wide variety of land targets. MRASM allows tactical aircraft to attack well-defended targets with minimal loss and allows aircraft carriers to stand off farther from the coast.

As MRASM's operational range is less than 600 kilometers, it is not restricted by SALT. The General Dynamics Tomahawk cruise missile design was chosen as the basis for the MRASM for several reasons:

- Minimum design modifications are needed because of the present modular design of the Tomahawk.
- The existing production line will be available for the MRASM with a cost savings, compared to starting a new line.
- Existing airframe components from the program can be used in the MRASM development, also with a cost savings.
- The Tomahawk design was determined in the ALCM production review to be a low-risk production because it uses existing manufacturing technology. Thus, no development of new processes or facilities will be needed to develop the MRASM.
- The test recovery device developed for the Tomahawk helps assure MRASM recovery during tests. This permits the use of vehicles at lower costs and lower schedule risks for the development program.
- By using the Tomahawk design, MRASM can be developed with minimum risk and costs to meet the Congressionally mandated December 1982 initial operational capability.

Within the next few days, General Dynamics Convair Division will be provided interim contractual direction and requested to submit a proposal for a full-scale engineering development program for the MRASM.

Current plans call for maximum competition for major subsystems. The engine design has not been finalized but will be selected from some existing design. Competition for the guidance system during development is also under consideration. It is planned to use the leader/follower acquisition method to develop a competent second source for production of the MRASM.

The MRASM program was initiated by the Congressional FY79 appropriation act, which provided the Navy with \$5.5 million in FY79; an additional \$30 million was authorized in FY80. The FY81 President's budget requested \$22.7 million for MRASM. With the use of available Tomahawk components and production means, these funds will be sufficient for the FY81 MRASM program and will reduce by some \$50 million the currently estimated development program costs of about \$158 million.

Toastmasters Guest Night at CRA April 19

The regular meeting of Convair Toastmasters 3745 on April 19 will be Guest Night, held from 5 to 7 p.m. in the CRA auditorium. The club recently completed its speech contest, which was won by Martha Sullivan.



Shaking hands at the ceremony dedicating ETR Launch Complex 14 as a national monument were the first Convair base manager at ETR, B.G. McNabb (left), and the current manager, Dan Sarokon. Just behind them is the marble monument that marks the spot.

ETR Complex 14 Dedicated as National Monument

Atlas Launch Complex 14 at the Eastern Test Range was recently dedicated as a national monument. Complex 14 was the place from which, on February 10, 1962, John Glenn was launched into space atop an Atlas to become the first American into orbit.

His historic flight was followed by successful orbital missions by Scott Carpenter, Walter Schirra, and Gordon Cooper, all launched from Complex 14 atop Atlas as part of Project Mercury. John Glenn, now a United States senator, spoke at the dedication ceremonies.

Hundreds of people who had been associated with the program were there. Some are now retired; others are still involved in space programs. Today, the space vehicles they work with are called Centaur, space shuttle . . . and Atlas.



EXCEL Award to Machine Shop Crew

Employees of the Machine Shop (Dept. 015) recently received a group EXCEL award for outstanding work on the DC-10 program. They worked around the clock to support the assembly line for aft jamb door corners when late parts from vendors hampered production. Above, flanked by (left) Dave Dudbridge, Operations general supervisor, and Lou Lau, director of Fabrication, are (left to right) Charles Ipox, Lloyd Stephens, Ralph Danner, Max Silvers, Horst Stargart, Arnold Gruner, Armando Morales, Harold Adamson, and Foy Slayton.

New Express Bus Service Starts Today

Complementing the regular bus service are the LF-KM express buses that move out today. They make the trip in twenty minutes. See complete schedules on plant bulletin boards and at bus stops, then climb aboard to save time and gas.

DC-10 Fuselage Delivered

DC-10 fuselage 337 was delivered to McDonnell Douglas on April 4. Bad weather caused a one-day delay.



These Lindbergh Field employees from Operations display the EXCEL awards they earned for perfect attendance during 1979. Congratulations to a conscientious and healthy crew.

Electronic Minishow Here on April 16

The Electronic Representatives Association will present the latest in electronic products in the KM main dining room on Wednesday, April 16. Convair people involved in acquisition or use of electronic products will be able to meet directly with association representatives to discuss the latest in hardware and applications. A large group of manufacturers is expected. Hours are from 4 to 6 p.m. Light refreshments will be served, courtesy of the association.

Stock Plan Values for February

Here are the unit values in dollars for the General Dynamics savings and stock investment plan as of February 29, 1980.

For salaried employees: government bonds, 2.3134; diversified portfolio, 1.7238; fixed income, 1.0634; GD stock, 72.25.

For hourly employees: government bonds, 2.3124; diversified portfolio, 1.7591; and GD stock, 72.25.

KC-10 Team Thanked

When the second KC-10A fuselage was completed and delivered on schedule, the people who built it were served coffee and doughnuts "for a job well done," said George Williams, DC-10 assembly superintendent. "Long hours and added effort were required in meeting our quality and schedule objectives," Williams added. The "well done" message topped the sign saying "Thanks to the C&D and F&G (fuselage section) teams and all support departments."

Management Seminar Saturday, April 19

Computers in management, financial management, women in management, and marketing influences will be the subjects of the seminar to be presented by the San Diego National Management Association Council on Saturday, April 19. It will be held from 8:30 a.m. to 3 p.m. at National University, 4007 Camino del Rio South.

The seminar is open to all employees. The \$15 fee includes breakfast, lunch, coffee breaks, as well as course materials. Call Connie at KM 3297 for reservations.

Underbrush Reemerges

While the college basketball championships were being contested by an unlikely group of competitors, the General Dynamics league championships saw in the final round another team whose recent credentials have been less than impressive. Back in 1961, the Underbrush came into being and for several years was one of the more feared combines on the GD circuit.

The years took their toll, however, and the Underbrush had not been able to claim top spot for over a decade. Yet, like Purdue, UCLA, and Iowa in the col-

lege finals, that relic from the past — the Underbrush — reemerged in the GD finals against the Seahawks. Original and present coach Ron Eckberg somehow aroused his charges, probably with battle cries long latent, and the Underbrush defeated the Seahawks 53-37 to claim the title. If Muhammed Ali can come back, why not the Underbrush?

Key Nuclear-Energy Issue Topic of CMA Meeting

Robert Hammond, Rockwell International's director of Quality Assurance at the Department of Energy's Hanford Site, will be the main speaker at the Convair Management Association dinner meeting at the Bahia Hotel the evening of Wednesday, April 16. His subject is the management of nuclear wastes. A film on the first Apollo moon mission and a prize drawing are also on the program. Tickets are \$6.50 for members and \$8.50 for nonmembers.

All Aboard for Vernal Vegas May 9-11

Las Vegas is even greener in spring as the high rollers head for town. Join them the weekend of May 9-11 via the low-priced tour that costs \$140 per couple and \$105 single. Stay at the Granada Inn. Enjoy lots of extras in Vegas and on the chartered bus to and from. To make reservations before the April 18 deadline, call Barbara at KM 2826 or Judy at LF 4247. The Convair Management Association has put the tour together.

'On a Clear Day' Tickets Discounted for May 5

Robert Goulet headlines the Los Angeles Civic Light Opera production of "On a Clear Day," which will be at the Fox Theater downtown. All General Dynamics employees, their families, and friends can get regular \$16.50 tickets for \$15.00 for the Monday, May 5, performance. Excellent seats are also available for the Saturday, May 10, performance at \$17.50 each. For details and reservations, call Dave Miller at KM 3010. The ticket sale is being sponsored by the Convair Management Association.

Padres Family Bargain Night Tickets on Sale

Tickets to Family Bargain Night at the San Diego Padres game on April 28 are on sale for \$2.50 each (plaza). Buy them at the CRA clubhouse or from Jim Pate (KM 1940), Ken Eulette (KM 1921), or Chuck Simmons (KM 1243).

New Soccer Club Meets, Practices Next Sunday

CRA's new Soccer Club holds its first general meeting next Sunday, April 13, in Missile Park at 11 a.m. A practice game follows. Those interested should contact the CRA clubhouse (KM 1111).

TRY FREE CLASS

Rock a'Robics Session Starts Next Monday

Slim down and shape up in the five-week Rock a'Robics session that begins on Monday, April 14. The coeducational classes meet eight times weekly in the CRA auditorium. The course fee of \$18 includes unlimited classes during the session. Call CRA at KM 1111 or instructor Pam Koch at 276-3559.

Everyone is invited to attend a free introductory class: Wednesday, April 9, at 4:30 p.m. and April 10 at 9:30 a.m., 4:30, and 5:20 p.m.

Indian Gives Pilgrim the Berries in Weekly Film

This week's movie is billed as a musical comedy. As "Medicine Man" opens, young John Mauldin stows away aboard the Mayflower. For his impudence, he is made ship's cook. In the new world, the unseasoned chef soon has them asking for seconds after a local medicine man introduces him to the cranberry. The film is good holiday fare, if it's Thanksgiving.

At Kearny Mesa, showings will be on Wednesday in classroom 3 of building 17 at 11:00 a.m. and noon. At Lindbergh, showings will be on Thursday in the building 5 auditorium at 11:00 a.m., noon, and 7:30 p.m.

Employment

For the week ending March 30, employment was 8,826.

CONVAIR Weekly Log

April 14, 1980

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TAKE STOCK IN AMERICA**U.S. Savings Bond Campaign Starts Today**

Today marks the start of a three-week drive aimed at continuing our solid support of the United States Savings Bond program and increasing participation to include all employees. Last year, 86% of Convair employees participated in the program. Dr. Buchanan is inviting each nonparticipant to join the program and current participants to consider saving even more through the bond payroll deduction program.

This year, the type of bond you receive switches from Series E to Series EE. The interest rate with Series EE is increased to 7% when bonds are held to maturity (versus 6½% for Series E). The purchase price of Series EE is one-half the face (maturity) value, versus 75% for Series E. The maturity period is eleven years, versus five for Series E. (Series E bonds need not be cashed in; they continue to earn interest until final maturity, which is forty years from issue date.)

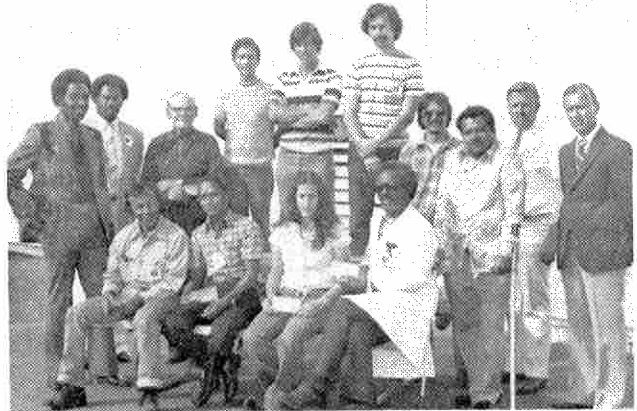
Since you can get higher interest rates in certain other investments, why participate in the savings bond program? Here are some reasons:

- Automatic payroll deduction results in an almost painless way to save. While we all have good intentions to set aside regular funds for saving and investment, it often turns out that do-it-yourself saving is sporadic and do-it-yourself withdrawals are frequent. The bottom line after a few years becomes, "Where did it all go?" Many people in the bond program have found themselves pleasantly surprised after several years — "I forgot that was even there!"
- Security is solid. Compare the number of people who have lost principal on U.S. bonds (zero) with those who have lost in the stock market, commodities, certain banks that failed, and even real estate.
- After six months, the bonds can readily be cashed in if need be. Many high-interest savings programs have heavy penalties for early withdrawal, and some investments may not be readily liquid. Tried to sell a house lately?
- The option of registering bonds in the name of your children provides an excellent way to accumulate funds for their future education. The taxes on interest reported as a child's income are generally below minimum taxable amounts while the child is still in school.
- The ability to defer taxes on interest until bonds are cashed may offer an advantage over paying taxes on interest as it is earned. For example, interest could be deferred until after retirement. Also, no state tax need be paid on savings bond interest.
- Convair's main customer is the U.S. government. Does the degree of participation in the bond program have any bearing on contract awards? Maybe, maybe not. But as Dr. Buchanan noted, "While certainly not a primary determinant, every little bit helps in convincing our customer, the U.S. government, that we are a dedicated team, success oriented, and supporting them in all their endeavors."
- The final reason is contained in the slogan, "Take Stock in America." While your bond dollars work for you, they are working for your country, because the bond program is a key factor in maintaining our economic strength.

So when your supervisor comes by and invites you to join the program or to increase the amount you are saving each pay period, how about responding positively?

DC-10 Fuselage Delivered

DC-10 fuselage 338 was delivered to McDonnell Douglas on April 11, on schedule.

**Tool Service People Have Perfect Attendance**

For perfect attendance in the first quarter of 1980, eleven employees of Tool Service (Dept. 460) have won awards and gift certificates for precision tools. Above, supervisors Roy Miller and Tony Carter (extreme left), Bill Fleming and Roger Mark (extreme right), flank the winners.

Seated, left to right, are Bob Padilla, Zack Esendencia, Denise Ludwig, and Coadis Jackson. Standing, left to right (between Carter and Fleming), are Lee Barnes, Chung Dao, Sam DiBlasi, John Robutka, Cliff Vaughan, and Greg Sanchez. The eleventh employee with perfect attendance was absent. That's Bob Rhiensmith. His record is still unblemished, though. He was on a different shift when the photo was taken.

Taking Stock

For the record, here are the percentages of employees of aerospace companies who participated in the 1979 U.S. Savings Bond program.

Lockheed	94	United Technologies	69
Boeing	89	Martin Marietta	67
McDonnell Douglas	82	Northrop	61
Grumman	76	Hughes Aircraft	51
General Dynamics	72	Rohr	51
Rockwell	69		

Burch Honored by United Way

Jerry Burch of Sheet Metal (Dept. 001) was selected by United Way as Outstanding Volunteer for the month of February. With the honor came the Silver Bowl award, sponsored by the Carnation Company and the Volunteer Bureau of the United Way. Nominated for the award by the Meridian Elementary School, Jerry is the first General Dynamics employee to be so honored.

Jerry has put in about five hours every day for the last two years at Meridian school, tutoring and coaching children at several age levels. He started volunteer service in the classroom several years ago when his own children were at Meridian and has continued to help on a regular basis. Here are some comments from teachers at the school. "I have taught for eighteen years and have never had the privilege of working with someone who gave so much of his time." "Jerry has contributed many hours to assist in my classroom; he is willing to help in every possible way. On his own, he purchased over \$100 worth of material to be used in the classroom."

Jerry Lynes, director of the United Way Volunteer Bureau Division, presented the award with this comment: "Our heartiest congratulations for the outstanding contribution to volunteering that you have made."

Convairites Invited to SAWE Meeting Thursday

The Society of Allied Weight Engineers invites Convair engineers and friends to attend a dinner meeting this Thursday evening. Don Tait will talk about lighter-than-air vehicles. The meeting will be held in the Seven Seas Lodge, 411 Hotel Circle South. Cocktails are at 6:30 and dinner (London broil of beef) at 7:30. Bud Oman (KM 1285) or John Kessler (LF 4313) will take reservations till 1 p.m. tomorrow.

Electronic Display at Kearny on Wednesday

The Electronic Representatives Association will present the latest in electronic products in the Kearny Mesa main dining room from 4 to 6 p.m. on April 16. Many manufacturers are expected to be represented. Refreshments will be served.

PRODUCTIVITY SNAG

Tips on Conducting, Attending Meetings

Our recent Productivity Snag item about meetings brought forth some good comments that will help make meetings more productive for all concerned:

- "Much time is wasted because the room does not have a chalkboard. The result is that attendees may have different ideas of just what a speaker means. Proper equipment is vital." A chalkboard, easel pad, or even a write-on viewgraph can help immensely in making sure that all group members are discussing the same point. Writing it down for all to see is often a useful clarifier.
- "No one should show up at a meeting if they haven't done their homework." We stressed that it is important for the chairperson to plan for the meeting. The same is true for all participants. Far too much time is wasted in having to bring too many people up to speed because they did not take the time to prepare. If you are expected to make a contribution, find some time ("I can't — I'm always in meetings" is not acceptable) to read the appropriate background material. If you're not going to contribute, why are you going?
- "Too many people don't stick to the subject." This snag is one of the big time wasters; it also demonstrates the value of a written agenda. As a meeting participant, follow the ground rule: if your comment is not germane to the subject, hold it until later. If you're the leader, tactfully but firmly ensure that people stick to the subject.
- "We keep covering the same ground and never get anything resolved." That's another common failing that leads to wasted effort. It is often helpful to summarize just what has been agreed upon, what is to be done next, and who is to do it.
- "We spend too much time in a meeting with twenty people trying to solve a problem that should have been done separately by two or three." Large meetings are expensive and often not the best place to solve problems. Separate sessions by individuals or working groups can speed up a large meeting, particularly if the subgroups attending are prepared to present their cases.

Blood Drive Draws Thanks

On behalf of Convair, Judi DePuy of Employee Benefits has these words of thanks for everyone who took part in our recent blood drive.

A very special thanks to the 608 donors who gave blood during our most recent drive, March 17-21. Since we can't congratulate each of you individually, reach around and pat yourself on the back. You deserve it! Of our donors, 319 credited their contribution to the Convair Reserve Fund.

Remember, Convair employees, if you or any of your eligible dependents receive a blood transfusion in San Diego County, submit the billing you receive from the Blood Bank to the Employee Benefits office for transfer of Convair Reserve Fund credits. You do not have to be a donor to participate in the Convair Reserve Fund.

Again, thanks for the tremendous response to the Blood Drive!

DISCOUNT SCUBA CLASSES

Open Delta Divers Meeting on Thursday

The General Dynamics Delta Divers Club now has a licensed scuba instructor who will conduct classes at a discount for Delta Divers members. Get the details at the Delta Divers meeting on April 17 at 7:30 p.m. in the TV room, CRA clubhouse.

SAFETY

SPOTLIGHT



"Hey! Why don't you watch where you're going?"

Free Smokenders Meeting at CRA April 22

Smoking is permitted. Coughing is expected. The meeting will be from 5 to 6 p.m., April 22, in the CRA clubhouse. All you need is enough willpower to get there, say Smokenders, and they'll show you how you can snuff out the habit — this time for good.

LAST TIME?

Half-Price Tickets for Padres April 28

What with a strike looming in left field, this may be the only Padres game of the season you can attend at half price for plaza seats, courtesy of the CRA. The Family Night tickets at \$2.25 per are available to all General Dynamics employees, their families and friends, at the CRA clubhouse and from Jim Pate (KM 1940), Ken Eulette (KM 1921), or Chuck Simmons (KM 1243).

DINNER AT 6:30

Prizes, Timely Talk, at CMA Meeting April 18

Good prizes in the Scholarship Fund drawing and a speech on the timely topic of nuclear waste management head up the program of the Convair Management Association dinner meeting at the Bahia Hotel this Wednesday evening. The speaker will be Robert Hammond, Rockwell International's director of Quality Assurance at the government's nuclear waste disposal site in Hanford, Washington. The program will begin at 7:30, following cocktails at 5 and dinner at 6:30.

'On a Clear Day' Tickets Discounted for May 5

Robert Goulet headlines the Los Angeles Civic Light Opera production of "On a Clear Day," which will be at the Fox Theater downtown. All General Dynamics employees, their families and friends, can get regular \$16.50 tickets for \$15.00 for the Monday, May 5, performance. Excellent seats are also available for the Saturday, May 10, performance at \$17.50 each. For details and reservations, call Dave Miller at KM 3010. The ticket sale is being sponsored by the Convair Management Association.

Unique Form of Architecture Topic of Week's Film

Buckminster Fuller, modern Renaissance man famed for his innovative thinking in many fields, is featured in "Geodesic Domes — The Shape of the Future," a film about his best-known invention. The movie shows how this versatile, near-spherical structure can be adapted to many uses, from commercial buildings to private homes.

At Kearny Mesa, showings will be on Wednesday in classroom 3 of building 17 at 11:00 a.m. and noon. At Lindbergh, showings will be on Thursday in the building 5 auditorium at 11:00 a.m., noon, and 7:30 p.m.

Employment

For the week ending April 6, employment was 8,616.

CONVAIR Weekly Log

April 28, 1980

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Lindbergh Field Salvage Yard Sale May 3

Desks, chairs, and assorted metal and lumber will be offered at the employee sale in the Lindbergh Field salvage yard from 8 a.m. to noon on Saturday, May 3. Use the Washington Street entrance. Be sure to wear sturdy shoes and take along some company ID. Sales are cash and carry.

Parmer, Hujsak, and Siden Receive Patents

Two patents have recently been issued in the names of Convair inventors.

Jerry Parmer's U.S. Patent 4,187,787 covers an electrical lead arrangement for supplying current to electrical devices immersed in cryogenic liquids.

Ed Hujsak and Lee Siden have just been granted Patent 4,195,804 for a device for docking or joining large structures or vehicles in earth orbit under automatic remote sensing and control.



Five employees from DC-10 Assembly (C/D) (Dept. 046) were honored with EXCEL awards for excellent performance. According to their then general supervisor, Bud Swindall, "They brought DC-10 item 55 from overbudget to underbudget, on schedule, and with no overtime. They were rewarded for their spirit, attitude, and workmanship. They did a heck of a fine job for us." Above, Jim Tolan (left), supervisor, and Chuck Baker (right), general supervisor, flank the EXCEL winners: Gerard Parmarter, Michael Stubbs, George Bishop, and Loren Theodore. Absent was John Romero.

Productivity Tip: Use the SP

People sometimes make many phone calls and otherwise lose time looking for information that is readily available. The problem is that they don't know where to look. One of the best sources of information is the division SP.

SP means Standard Practices. The SP is a two-volume, white-covered set of books with pink pages. Within are answers to most questions about company procedures or directions on where to find the answers.

Two hundred sets of SPs are placed throughout Convair facilities. Division Distribution keeps a ready reference of all SP set locations and can tell you the location of the set nearest you.

SAFETY SPOTLIGHT



"Naagh! It doesn't do a thing for me!"

To use the SP, first check the key-word index (SP A4) in the front of Volume I. The first page of this section contains a user's guide and an alphabetical listing of Convair directives. This information tells you how to find the answer, whether in the SP itself or in another manual.

1979 Employee Suggestion Results Announced

A summary of the 1979 corporate Employee Suggestion program reveals that total dollar savings from all divisions were up 41% over 1978, to nearly \$9 million.

Stromberg-Carlson, best overall performer, zoomed from sixth place in 1978 to first place. The single largest saving resulted from a Stromberg-Carlson employee suggestion worth \$530,000. Fort Worth led in total savings, which amounted to more than \$4 million.

Convair was second in overall performance, with \$1,064,000 in total savings realized. At \$134 per employee, we were well above our goal. On a per capita basis, Convair led the corporation in the highest number of suggestors, suggestions submitted, and percentage of workload processed. Did you suggest any winning ideas?

Six Students Win General Dynamics Scholarships

Four-year college scholarships sponsored by General Dynamics have been awarded to four high school students under the National Merit Scholarship program. The winners are: Elizabeth Newman, daughter of Howard Newman, Convair; Clifford Sedlund, son of

Floyd Sedlund, Convair; Tres Seaver, son of Kenneth Seaver, Fort Worth; and Michael Cameron, son of Charles Cameron, Freeman United.

In addition, two students have been awarded four-year National Achievement scholarships: Junette McBryde, daughter of Zonnie McBryde, Stromberg-Carlson; and James Jackson, son of Lloyd Jackson, Tulsa, Oklahoma.

Management Seminar Start Dates Change

Both seminars are sponsored by the Convair Management Association. They are free to members. Non-members pay a fee of \$3. Completing either counts toward a Management Skills certificate. Each consists of six sessions.

Critical Incidents in Management. Sessions are on April 30, May 7, 14, 21, 18, and June 4. Key subjects are identifying problems, problem-solving as a management role, and problem-solving techniques.

The sessions will be held at Kearny Mesa in Educational Services, building 17. Enrollment is limited. For reservations, call Victor Smith at KM 3286.

Discussion for Learning. Sessions are on May 7, 14, 21, 28, June 4, and 11. Subjects include how to encourage discussions, control them and get the most out of them, as well as how to conduct National Management Association courses.

The sessions will be held at Lindbergh Field in room 6 of building 14. The instructor is Phil Rader. For reservations, call Klaus Flitner at LF 4340. The class is limited to 12 participants.

Tour Fleet Combat Training Center April 29

The tour of the Navy Fleet Combat Training Center on Point Loma will begin at 2 p.m. tomorrow and last about two hours. The tour includes the Air Controller's School and seeing a control fighter conduct an air intercept. For details and reservations, call Barbara Freeman at KM 2826.

CMA's Spring Dance Set for Saturday, May 10

The annual spring dance of the Convair Management Association will be held in the Pacific ballroom of the Holiday Inn at the Embarcadero the evening of May 10. Dancing will be from 9 to 1, to the music of Dennis Mauricio and "Sunburst." Dinner (the entree is a nine-ounce top sirloin steak) will be at 7:30, following cocktails. Prizes in the Scholarship Fund drawing include a weekend for two in San Felipe, overnight and brunch at the Westgate Hotel.

Tickets are \$30 per couple for members and \$40 per couple for nonmembers. For seating reservations and hotel rooms, call Tanya Zink (KM 1108) after you have your tickets. Jim Robertson is executive host of the dinner dance, which is sponsored by the Marketing Department.

New Computer Club Meets May 7

The next meeting of the CRA Computer Club will be held at Computerland, 4233 Convoy Street, on Wednesday, May 7, at 6:30 p.m. All members, guests, and any other interested persons are invited. Call Walt Barrett (ED 3431) for details.

Free Bowling Party May 26

CRA invites employees and dependents to a free bowling party at Brunswick Bowlero Bowl, 7065 Broadway, Lemon Grove, on May 26 at 6 p.m.

Although the hope is that a mixed bowling league will result from the party, there is no obligation to join. So, come on out and have some fun. Refreshments, instruction, and a playroom for the kids will be available. Contact CRA (KM 1111) before May 12 if you're interested.

Be There Already When Summer Arrives in Vegas

In case you won't be along for the Rites of Spring trip to Vegas in May, more fun and games await you the weekend of June 20-22. (Summer comes in on the 21st.)

Stay at the new Mini-Price Inn, a throw of the dice from the MGM Grand. The price of \$140 per couple, double occupancy, includes round trip by air-conditioned bus, lots of good things en route both ways, a trip to downtown Vegas on Saturday, and more extras. Seats are limited and reservations must be made by May 23. Call Barbara at KM 2826 or Judy at LF 4247. The Convair Management Association is sponsoring the event.

Hawaiian Golf Tour October 3-11

The CRA Golf Club is sponsoring a golf tour to Hawaii from October 3 through 11. There will be a presentation for all those interested on May 15, 7 p.m., in the CRA picnic shelter. For details, call the CRA clubhouse (KM 1111).

From the CRA

Padres-Pirates May 9 at Discount. Regular \$4.50 tickets are \$4 each for all employees and their families for CRA Discount Night May 9, when the Pittsburgh Pirates meet the Padres. Get tickets at the CRA clubhouse and from Jim Pate (KM 1940), Ken Eulette (KM 1921), Chuck Simmons (KM 1243), or from the Lindbergh Field sales office (LF 4317).

This Week's Film Looks at NATO Soldiers

British actor Anthony Quayle narrates as "Borealis" visits more than 20 citizen soldiers who are part of the North Atlantic Treaty Organization forces.

At Kearny Mesa, showings will be on Wednesday in classroom 3 of building 17 at 11:00 a.m. and noon. At Lindbergh, showings will be on Thursday in the building 5 auditorium at 11:00 a.m., noon, and 7:30 p.m.

Employment

For the week ending April 20, employment was 8,464.

CONVAIR Weekly Log

May 5, 1980

Published by the Convair Division of General Dynamics

What's Going On?

That's what we asked several of our program directors. Here's what's going on in some of our key programs.

767 Struts. The assembly line is starting up under our contract to produce engine struts for Boeing's new 767 transport. The first test strut is nearing completion and is being prepared for its June 6 delivery — right on schedule. That strut is being closely followed by four other test struts and the first production shipset — all to be delivered before the end of this year.

Launch Vehicle Programs. Friday at NASA's Lewis Research Center, an LVP team headed by program director Chuck Wilson reviewed results of a NASA-funded study we conducted to increase the payload capability of Atlas/Centaur. The study was made because the increasing size of communications satellites indicates the need for a higher performance Atlas/Centaur in 1984. The LVP team discussed a number of relatively inexpensive software and hardware items that would increase performance by several hundred pounds while preserving the proven high reliability of our vehicles.

Atlas Makes Seventh Navstar Launch. Atlas booster 34F recently launched the Navstar-6 satellite from Vandenberg Air Force Base. This was the seventh Navstar Global Positioning System (GPS) satellite to be placed in orbit. All have been launched by Atlas. Five more Atlas launches of Navstar satellites are scheduled, the last in early 1983.

Energy Systems. The Department of Energy and Massachusetts Institute of Technology have redirected us to incorporate elements of our CASK design (not an acronym — it looks like a cask) into the Stanford University magnetohydrodynamic magnet, since funding cuts by DOE have caused delays in the MHD program. This CASK design is the preferred prototype of large magnets for commercial MHD power plants of the 1990s.

The large coil for Oak Ridge National Laboratory and the preprototype magnet for TRW are well into the fabrication phase. Conductor processing and coil winding will begin this month.

Two major energy proposals are in work: the Elmo Bumpy Torus for the Oak Ridge Laboratory and the Mirror Fusion Test Facility for the Lawrence Livermore Laboratory.

Sea Launched Cruise Missile. The submarine launched antiship missile is in the advanced stages of development. There are only two more contractor test and evaluation flights before the Navy evaluation tests of the system begin. Operational capability will be established in mid-1982.

Design of the first version of the conventional land attack Tomahawk is well under way. The first vehicle will be delivered in December. Operational submarine capability will be established in early 1982.



Employees of the Machine Shop (Dept. 015) receive EXCEL awards for their outstanding work in the Machine Shop straightening area. During the past year, they showed initiative and innovation in carrying out assigned tasks without tools and with a minimum of assistance. In presenting the award, Lou Lau thanked them for "a good job well done." Flanked by (left) Mac McFarland, Operations supervisor, and Lou Lau, director of Fabrication, are (left to right): Hank Cunningham, John Hanson, Joe Cabeen, and Ray Amaro.

We expect go-ahead shortly on our first production contract for Tomahawk. It will contain three each of antiship and conventional land attack Tomahawks. This first production buy will be followed by increasing quantities in 1981 and subsequent years.

We have been given go-ahead for a land attack Tomahawk vertical launch demonstration, and we expect full go-ahead later this year to support the conversion of the vertical launch system to Tomahawk capability. This will significantly increase our production potential by providing increased launcher capability on surface ships.

DC-10 Program. DC-10 fuselage 340 was delivered to McDonnell Douglas on April 29, on schedule.

Make SSIP Changes This Month

July 1, 1980, is the effective date of changes that you make during May in your option or percentage of contributions for the corporate savings and stock investment plan (SSIP). Make changes in the Employee Benefits offices (KM 2559 or LF 4001).

If you now have one year of service with General Dynamics and are not contacted by May 10, get in touch with Employee Benefits to sign up for the SSIP or to clarify your eligibility. It's especially important to do so if you were hired during the past several months and have previous General Dynamics service.

Advanced Space Programs. Concepts are being developed for three distinct future product lines that will use the space shuttle transportation system starting in the mid-1980s.

- *Geostationary Communications Platform.* We have an ongoing concept development study from NASA's Marshall Space Flight Center to develop

FLIP

an operational concept, as well as a near-term demonstration concept of a large platform that provides a common ground for several satellite communication systems.

- **Space-Based Radar System.** We are working on concepts for space-based surveillance and have a contract from the Air Force for the design and development of a unique, single-membrane radar antenna system.
- **Orbital Transfer Vehicles.** We have a contract from the Marshall Space Flight Center for the conceptual study of future upper stages that will be used in conjunction with the space shuttle program. The upper stages will be used to transfer large and heavy payloads from the shuttle's low earth orbit to the spacecraft operating orbit.

In support of these future program thrusts, several technology contracts have been obtained from the Air Force and NASA centers. These technology contracts include Space Power Management, Control of Large Space Structures, Space Constructions of Large Platform Systems, and Propellant Management Studies.

First-Quarter Corporate Earnings Set Record

General Dynamics earnings in the first quarter of 1980 were the highest for any first quarter in the company's history.

David Lewis, chairman and chief executive officer, told shareholders attending the company's annual meeting in St. Louis that earnings for the three months ending March 30 were \$36.3 million, or \$1.33 per share, 23 percent higher than the \$29.5 million, or \$1.08 per share, reported in the first quarter of 1979.

Sales of \$1.07 billion during the 1980 first quarter were also an all-time high for any first quarter and were 19.5 percent higher than the \$895.6 million recorded in 1979.

Lindbergh Toastmasters Elect New Officers

The Toastmasters Club at Lindbergh Field has elected these officers: Tommy Thomas, president; Wally Schmidt, education VP; Jim Johnston, administrative VP; Patty Jenny, secretary; Donna Green, treasurer; and Hector Garcia and Clyde Hoofard, sergeants at arms.

PAY BY PAYROLL DEDUCTION

Everyone's Invited to the Spring Dance May 10

Get up a party of friends or family and have a big night out at the annual Spring Dinner Dance of the Convair Management Association, to be held this year Saturday evening, May 10, at the Embarcadero Holiday Inn. Dancing will be from 9 to 1, to the music of Dennis Mauricio and "Sunburst." Dinner (the entree is a nine-ounce top sirloin steak) will be at 7:30, following cocktails. Prizes in the Scholarship Fund drawing include a weekend for two in San Felipe and a weekend for two at the Harbor Island Travelodge, including Sunday brunch at Raphael's.

Tickets are \$30 per couple for members and \$40 per couple for nonmembers. For seating reservations call Tanya Zink (KM 1108) after you have your tickets.

Investing in Gems Topic of Free Seminar May 22

A free seminar on investing in gems will be conducted by Evans Limited and San Diego Gem Associates on Thursday, May 22, from 5 to 9 p.m. in the Kearny Mesa cafeteria. Among topics that will be discussed are the tax advantages of buying gems and the growing scarcity of diamonds, pearls, rubies, and emeralds. The seminar will include a gem display. Bring a piece of jewelry for an appraisal. For reservations call Urban Sweeney at KM 1073. The sponsor is the Convair Management Association.

Come Watch Men's Slow-Pitch Softball

Men's slow-pitch softball games are played on Tuesday, Wednesday, and Thursday in the Missile Park stadium, with game times at 5:00, 6:15, 7:30, and 8:45 p.m. That's a lot of softball and admission is free.

Coed slow-pitch softball games are on Monday nights. The coed league is still looking for women who enjoy softball. Call KM 1111 and leave your name and number.

Special Discount Tickets for 'I Do, I Do'

See a special performance of the musical "I Do, I Do," starring Jane Powell and Howard Keel, and save money. The Fox Theater downtown will present the musical comedy on June 1 at 8:30 p.m. Excellent \$15 orchestra seats will be discounted to \$12 for all employees and friends. Call Judy (LF 4247) or Cissy (KM 1287) for reservations. The Convair Management Association has arranged the ticket sale.

Discount Tickets to San Diego Sockers Games

See any or all San Diego Sockers games at these discounts: \$7 seats are discounted to \$5 for everyone. \$5 seats are discounted to \$4 for adults and \$3 for those under 18 and over 60. Order your tickets from Phyllis Bendett (280-4625) no later than 4:30 p.m. three days before the game, then pick up and pay for the tickets no later than noon, two days before the game. This discount is not available at the ticket window. The sale is being sponsored by the Convair Recreation Association.

The Pleasures of Vegas: Yours June 20-22

Stay at the new Mini-Price Inn, near the MGM Grand. The price of \$140 per couple, double occupancy, includes round trip by air-conditioned bus, good things en route both ways, a trip to downtown Las Vegas on Saturday, and more extras. Seats are limited and reservations must be made by May 23. Call Barbara at KM 2826 or Judy at LF 4247. The Convair Management Association is sponsoring the event.

Week's Film Pans Across Biggest Fair in Canada

The Canadian finals rodeo and Klondike Days are part of the hoopla making up the Edmonton Northlands fair that runs all year in Edmonton, Alberta. They're two of 1,500 events, and "Reflections of Edmonton" seems to cover them all.

At Kearny Mesa, showings will be on Wednesday in classroom 3 of building 17 at 11:00 a.m. and noon. At Lindbergh, showings will be on Thursday in the building 5 auditorium at 11:00 a.m., noon, and 7:30 p.m.

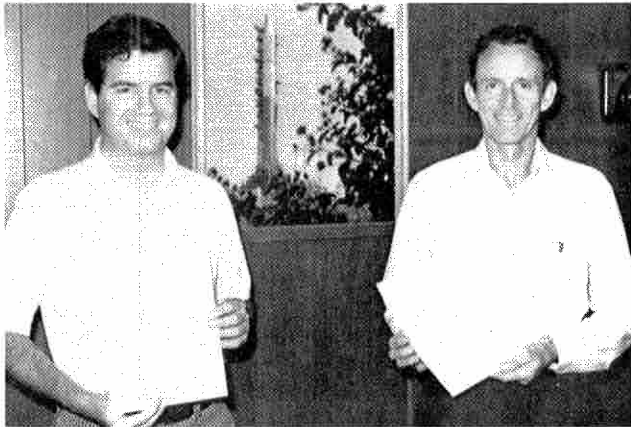
Employment

For the week ending April 27, employment was 8,412.

CONVAIR Weekly Log

May 12, 1980

Published by the Convair Division of General Dynamics



NASA Honors HEAO Team

Honored recently by the National Aeronautics & Space Administration for their contributions to the High Energy Astronomy Observatory (HEAO) launch team were Convair employees Pat McGuire (above, left), who worked on spacecraft encapsulization, transporting, and mating to Centaur, and John Schnabel (right), honored for his work with HEAO experimenters to ensure that their stringent requirements were met. Also honored was Bob Benzwi (absent for photo), who was mission manager. The ceremony that honored key members of the HEAO launch team was held at NASA's Marshall Space Flight Center.

Orbiter Mid-Fuselage Conversion Work Under Way

In accordance with NASA's decision to convert the Space Shuttle static test vehicle into a second flight vehicle, we are providing the kits and support personnel required for converting the orbiter's mid-fuselage, which we produced for Rockwell International, the Shuttle prime contractor. RI is carrying out the task at their Palmdale plant.

As part of the continuing Space Shuttle weight control program, we are making changes in the mid-fuselages for orbiter vehicles OV-103 and -104. Design work and associated activities are under way. The goal of the program is lighter vehicles and therefore heavier payloads.

Huntington Honored by SDSU Engineering College

Dick Huntington has been named Distinguished Alumnus of the Year by the College of Engineering of San Diego State University. He will receive an award at the university's Alumni Banquet on May 22. Dick received his master's degree in aerospace engineering at SDSU in 1966.

He is currently acting director of Systems Engineering (Dept. 667-0) and manager of Flight Mechanics (Dept. 668-0). He has been with Convair since 1963.

DC-10 Fuselage Delivered

DC-10 fuselage 341 was delivered to McDonnell Douglas on May 7, on schedule.

First Tomahawk Production Contract Received

The Navy has awarded Convair a \$13.6 million contract to initiate production of components and subsystems to support the assembly and test of six Tomahawk sea launched cruise missiles: three antiship and three conventional land attack versions of the BGM-109. (The contract also calls for procurement of some long-lead-time Tomahawk components.)

This is the first contract we have received from the Navy to initiate production of the Tomahawk cruise missile. It follows our extensive BGM-109 development and testing work that began in 1972.

Convair Engineers Attend SAWE Conference

Convair employees will be out in force at the 39th annual International Conference of the Society of Allied Weight Engineers this week in St. Louis. Responsible for the entire technical program is Bob Johnston (Dept. 111-0), as International Conference vice president-technical director. Paul Slysh (Dept. 611-0) is serving as chairman of the Space Structures Technology session. Des Vaughn (Dept. 673-0) is presenting a paper in that session entitled "Modular Space Structures." Panelist at the Air Systems Workshop is Doyle Hixson (Dept. 604-0). Gary Balthrop (Dept. 111-0) is coordinating conference vendor exhibits and demonstrations. Awards chairman is John Fuller (Dept. 604-0).

'Essentials of Management' Course for Supervisors

If you are a first-line supervisor and have been in your present assignment for less than two years, you are eligible for the next Essentials of Management course that will be offered at Convair. If you are interested, let your manager know. Anyone eligible and recommended by her or his manager will have the opportunity to take the one-week course. The date will be announced. Enrollment is limited to 20, and there's also a limit on the number of participants from any one department.

Convair offers the course as part of company efforts to upgrade the skills of management team members. The course is tailored to the needs of first-line supervisors. Additional courses that address other management issues are planned for the near future.

The first Essentials of Management course was held last week. Participants received more than 22 hours of classroom instruction and exercises, in addition to homework. They studied basic management concepts, as well as practical applications of the concepts to real-life situations.

A CALL FROM PRINCE CHARLES

Stan Griffin Represents England in Tennis Tourney

Stan Griffin is representing England in the Senior International Tennis Matches being held in Cervio, Italy, May 10 through 19. Seventeen nations are participating. These matches are considered the Davis Cup at the senior level (players 45 and older).

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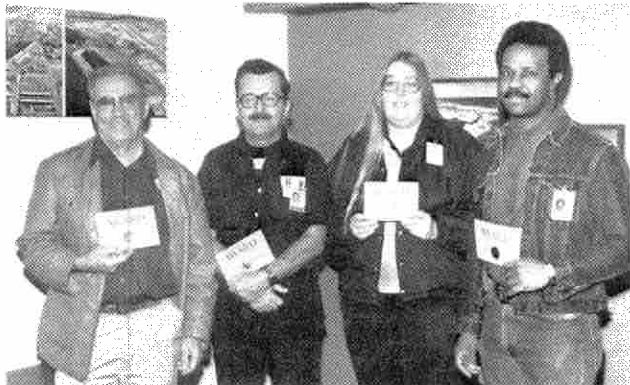
Griffin, manager of the Aerotest Lab (Dept. 666-0), was chosen as England's entry by the British Teams Association. (He's an American citizen but is eligible by birth to play for England.) Stan received a personal phone call from Prince Charles urging him to accept.

Griffin believes he was selected because he beat the current British senior champion in the U.S. Nationals last December. He has ranked as high as no. 4 in the strong contingent of Southern California seniors. He was formerly the West of England champion. Stan's wife, also an outstanding player, is with him in Italy.

For Video Support, Call Motion Pictures & TV

If you need video equipment and services to support your work, get the best: Call Bob Montague and his staff in Motion Pictures & TV (Dept. 251-3) at KM 1525.

Some pieces of equipment have recently turned up that were not acquired by Motion Pictures & TV, which has sole responsibility under Standard Practices B45 for video equipment and services at Convair. These off-the-wall components don't meet editing and distribution standards. So if you need additional equipment, remember to call MP&TV. They know the right gear to buy or lease and they make sure that new acquisitions are compatible with existing equipment.



Six people in the Machine Shop (Dept. 015) were employee suggestion award winners for February and March. Their suggestions result in a saving of nearly \$5,000. Left to right: Bob Seamans, Vern Gilson, Ardita Anderson, and Nathaniel Richardson. Not pictured are Ken Johnston and William Sager.

Preretirement Planning Lectures Begin June 3

A Preretirement Planning Seminar lecture series starts June 3 at Kearny Mesa. The six consecutive Tuesday evening meetings will be held from 6:30 to 9:30 p.m. in the presentation room, building 2. Enrollment is free and is open to employees and their spouses. The lectures will be conducted by the San Diego Community College and are jointly sponsored by Employee Benefits and Educational Services. To make reservations, call Employee Benefits at KM 2267.

Hawaii Golf Tour Talk Is Thursday

A detailed presentation on CRA's golf tour to Hawaii in October will be held this Thursday at 7 p.m. in the Missile Park pavilion. All interested golfers are invited.

Healthy-Back Class Begins May 20

Low back problems? Attend the CRA Health-Fitness Center healthy-back class, which begins its second session on May 20. Class meets on Tuesdays and Thursdays from 4:45 to 5:45 p.m. for six consecutive weeks. Call Sheryl Marks at KM 1111.

Investing in Gems Topic of Free Seminar May 22

A free seminar on investing in gems will be conducted by Evans Limited and San Diego Gem Associates on Thursday, May 22, from 5 to 9 p.m. in the Kearny Mesa cafeteria. The seminar will include a gem display. Bring a piece of jewelry for an appraisal. For reservations, call Urban Sweeney at KM 1073. The sponsor is the Convair Management Association.

Special Discount Tickets for 'I Do, I Do'

See a special performance of "I Do, I Do" and save. The Fox Theater downtown will present the musical comedy on June 1 at 8:30 p.m. Excellent \$15 orchestra seats are \$12 for all employees and friends. Reserve by May 22. Call Judy (LF 4247) or Cissy (KM 1287). The Convair Management Association has arranged the ticket sale.

Last Chance for Vegas Trip June 20-22

The price of \$140 per couple, double occupancy, includes two nights at the new Mini-Price Inn, round trip by air-conditioned bus, a trip downtown on Saturday, and many extras. Reservations must be made by May 23. Call Barbara at KM 2826 or Judy at LF 4247. The Convair Management Association is sponsoring the event.

Mercedes, Monsanto Supply This Week's Films

No details have arrived on the two films for this week's showing, but the producers sound promising. "Everyone" is by Mercedes-Benz. Monsanto produced "Chemicals - a Matter of Balance."

At Kearny Mesa, showings will be on Wednesday in classroom 3 of building 17 at 11:00 a.m. and noon. At Lindbergh, showings will be on Thursday in the building 5 auditorium at 11:00 a.m., noon, and 7:30 p.m.

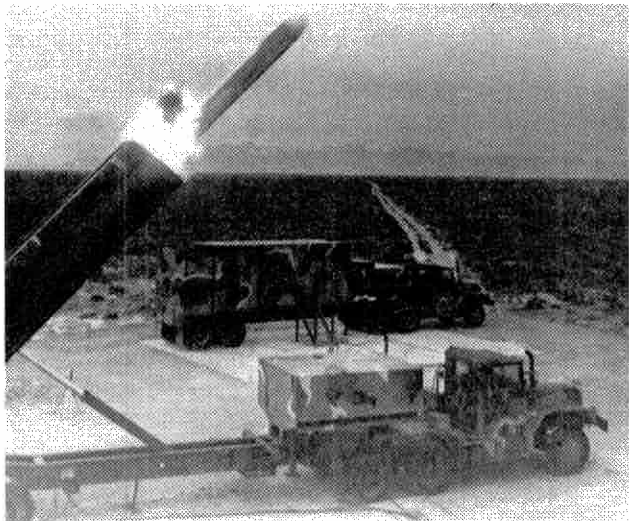
Employment

For the week ending May 4, employment was 8,362.

CONVAIR Weekly Log

May 27, 1980

Published by the Convair Division of General Dynamics



Here's the Tomahawk ground launched cruise missile at the start of its first launch from the transporter-erector-launcher (TEL), on May 16 at the Dugway Proving Ground in Utah. The launch and test flight were completely successful, including parachute recovery.

CRA Top Winner at Recreation Conference

Judged "first" in four categories, the Convair Recreation Association won more awards than any other company at the 39th annual conference of the 2,200-member National Industrial Recreation Association. The meeting and exhibit concluded last week in the Town & Country Convention Center.

CRA won the Eastwood award for the best overall recreation program among member companies of 5,000 to 10,000 employees. The Kearny Mesa & Pacific miniature railroad at Missile Park won an award as "the best individual activity within an overall program."

The recent CRA brochure *Make the Most of It* was judged "national champion" in the category of one-of-a-kind promotional items. *Dynamic Health*, the CRA Health-Fitness Center newsletter, won first place in the newsletter category. (The Fort Worth Division's entry was second.) The publications were produced in Art & Editorial under editor Jack Smothers and designer Mark Keller.

Jerry Starkey, supervisor of recreation, commented, "The CRA's product is recreation and that's hard to measure. These awards are welcome evidence that our product is a good one. The credit for winning goes first of all to the General Dynamics employees who built and support the clubs and other programs at the CRA."

Steve Woolley, CRA business manager, coordinated the entries for the awards and CRA activities at the conference.

NEW LUXURY VAN PROVIDED

East County-to-Kearny Commuters: Form Vanpool

Here's the deal from the Commuter Computer agency of the State Department of Transportation. Through the Ridesharing Program, Vanpool Services will provide a brand-new, luxurious 15-passenger commuter van if a minimum of 13 people sign up. The driver of the van gets a free ride to work and personal use of the van on evenings and weekends. Passengers pay a low monthly fare that covers all costs of the vanpool.

Commuter Computer reports that several Kearny Mesa employees have expressed interest in a vanpool from the El Cajon-La Mesa area. The projected cost per person for this service would be \$43 per month (about \$10 per week).

If you're interested in forming a vanpool as a passenger or driver, call Commuter Computer at 237-POOL.

East County commuters may recall that last February, Kearny Mesa employees were asked if they were interested in an express bus service from the El Cajon area. Although many employees showed interest, the number fell short of 40, the minimum needed for an express bus.

The Bluesheet seeks your help in providing leads on good stories about what's going on at Convair, including items about the personal accomplishments of individual employees. If you have a story or an idea for one, drop a note to Don Davis at MZ 11-1331 or call him at KM 1374.

Reminder: Make Stock Plan Changes This Month

July 1 is the effective date of changes that you make during May in your options or percentage of contributions for the corporate savings and stock investment plan (SSIP). Make changes in the Employee Benefits offices (KM 2559 or LF 4001).

If you now have one year of service with General Dynamics and have not been contacted, get in touch with Employee Benefits to sign up for the SSIP or to clarify your eligibility. It's especially important to do so if you were hired during the past several months and have previous General Dynamics service.



Ken Kinnischtzke of Metals & Ceramics (Dept. 632-0) sights along a boron/aluminum-titanium stiffener 105 inches long.

New Advanced-Composite Shuttle Orbiter Product

The Process Development Laboratory (Dept. 632-0) is developing an advanced-composite structure (above) for the space shuttle orbiter with technology that uses diffusion bonding in a high-pressure, high-temperature autoclave. The laboratory, supervised by Charlie Maikish, is part of Materials and Process Engineering (Dept. 630-0).

The hat-section stiffener (so called because in profile, it's hat shaped) weighs 75 pounds less than the structure it will replace. The orbiter has 52 of these stiffeners, so the total weight saving will allow the orbiter to carry almost two tons more payload.

Technical Papers Presented in May

Here are the technical papers by Convair engineers that are being presented this month at the conferences noted.

- "Fuel-Hydraulic Transfer Value Improves Reliability of Atlas Space Launch Vehicle," by Murray Ogman (Dept. 693-0). Presented at the 14th Aerospace Mechanism Symposium, sponsored by the California Institute of Technology, Hampton, Virginia, May 1-2.

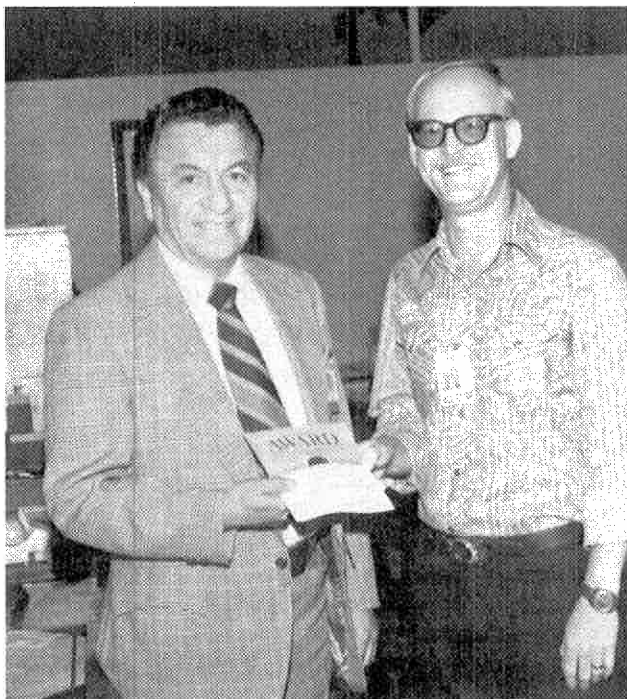
Three papers were presented at the Society for the Advancement of Material and Process Engineering Conference, San Diego, May 5-6:

"Design, Fabrication, and Test of Boron/Aluminum Frusta," by Ray Adsit (Dept. 633-2) and Don Weisinger (Dept. 633-4).

"Development of a Unique Equipment Ring Concept for Graphite/Epoxy Frusta," by Ray Adsit, Jules Hertz (Dept. 630-0), Jack Prunty (Dept. 641-0), and Ed Spier, (Dept. 681-0).

"Methods to Reduce Scatter of the Strength Properties of Advanced-Composite Materials," by Gary Brown (Dept. 640-0).

- "Integration of Digital Avionics Components for Guided Weapons," by Dave Geyer (Dept. 610-0). Presented at the 29th Guidance and Control Panel Symposium of the NATO Advisory Group for Aerospace Research and Development, Eglin Air Force Base, Florida, May 5-9.
- "Construction of a Large, High-Intensity Reverberation Facility," by Oran Moore, Jr., (Dept. 661-0). Presented at the Institute of Environmental Sciences' 26th Annual Meeting, Philadelphia, May 11-14.
- "On Experimental Versus Theoretical Incipient Buckling of Narrow Graphite/Epoxy Plates in Compression," by Ed Spier. Presented at the 21st Structural Dynamics and Materials Conference, Seattle, May 12-14.
- "Z8000 Provides the Basis for Powerful New Airborne Computer," by Charles Newby (Dept. 659-0) and Jim Schmedake (Dept. 659-0). Presented at the National Aerospace and Electronics Conference, Dayton, May 20.
- "Interferometry by Diffractionplate and Scatterplate," by Gene Cross, Jr., (Dept. 677-0). Presented at the 1980 Spring Conference on Applied Optics, sponsored by the Optical Society of America, Oakland, May 31-June 6.



Everett Shackelton (right), a tool-order planner in Planning (Dept. 430-0), earned an employee suggestion award of \$410.50 for an idea that resulted in a combined first-year saving of more than \$4,000 for the Quality Assurance and Tooling Departments. His suggestion was for changes in procedures between Convair and a subcontractor who fabricates DC-10 side frames. Here, he receives the award from Manny Gonzales, operations supervisor of Planning.

Yoga Class Starts June 2 at Health-Fitness Center

A six-week course of Yoga exercises begins Monday, June 2, in the CRA Health-Fitness Center. Classes will be held on Mondays and Wednesdays from 5:30 to 6:30 p.m. The price is \$25. To register, call Sheryl Marks at KM 1111.



Winning Trio Helped Train New Employees

Harold Erickson, La Rea Powell, and Lori Lakey (left to right, above, with certificates) are all recent winners of EXCEL awards for the same reason: they created and implemented a plan that allowed new members of Manufacturing Control (Dept. 222-1) to become productive employees in minimum time. Harold did an outstanding job of helping new hires develop dispatching skills. Besides doing her own work, La Rea prepared lesson plans and conducted training sessions that were a big assist to the instruction program. Lori taught new employees despite her own heavy work load.

Above: to the left of each winner stands his or her supervisor: Don Anderson, P.L. Smith, and Herb Barnes.

DC-10 Fuselage Delivered

DC-10 fuselage 343 was delivered to McDonnell Douglas on May 23, in accordance with contract schedule.

Tickets at Half Price for Padres-Astros June 2

Regular \$4.50 seats are \$2.25 for the June 2 game between the Padres and Houston Astros. Get them from the CRA clubhouse (KM 1111), Jim Pate (KM 1940), Ken Eulette (KM 1921), Dee Buckland (LF 4317), or Carol Gamache (KM 1711).

Rockhounds' Gems, Mineral Show This Weekend

The CRA Rockhounds will hold their biggest show yet on Saturday, May 31, from 10 a.m. to 9 p.m., and Sunday from 10 a.m. to 5 p.m., in the CRA auditorium. Admission and parking are free.

Displays will include 40 cases of lapidary work, mineral specimens, jewelry, and Indian artifacts. John Taylor's collection of highly polished petrified wood specimens will be on display. The collection has won many awards, including "best in show" at the 1978 San Diego County Gemboree. Other features will be working demonstrations of lapidary equipment and a gem identification booth. Dealers will have jewelry-making supplies, minerals, gems, jewelry, lapidary equipment, etc., for sale at very reasonable prices.

NFL Ref Tunney Speaks at CMA Dinner June 17

Jim Tunney, National Football League referee, will be the featured speaker at the Convair Management Association's Scholarship Night on Tuesday evening, June 17, at the Mission Bay Hilton. All employees and their families are invited. Tickets are \$9 for members and spouses and \$11 for nonmembers.

High Risk-Reward Investing in This Week's Film

You think wagering on the nags is chancey? Take a look at "What It Takes to Speculate," a film as much about nerves as money. You see how investing in commodities such as cocoa and silver can be a fast trip to easy street or the street of broken dreams.

At Kearny Mesa, showings will be on Wednesday in classroom 3 of building 17 at 11:00 a.m. and noon. At Lindbergh, showings will be on Thursday in the building 5 auditorium at 11:00 a.m., noon, and 7:30 p.m.

Employment

For the week ending May 18, employment was 8,328.

CONVAIR Weekly Log

June 9, 1980

Published by the Convair Division of General Dynamics

Bill Dietz New Cruise Missile Program Director

Bill Dietz has been appointed vice president and program director — Cruise Missiles. He replaces Ralph MacKenzie, who has been named vice president and program director — Rolling Airframe Missile (RAM) Systems at the Pomona Division. These assignments are made to best satisfy corporate needs on these very important national programs.

Additionally, Bernie Kuchta has been appointed deputy program director — Cruise Missiles and Dr. Jim Karam has been appointed program director — Medium Range Air-to-Surface Missile (MRASM). Both report to Dietz. Joe Coddou has been assigned as staff to the new program director.

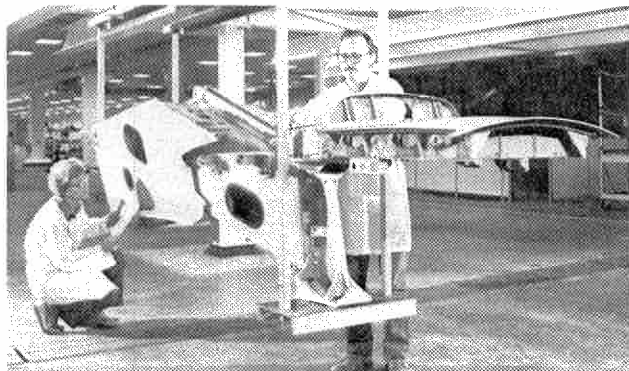
Congratulations are in order for all Convair employees who have made this year's bond drive a success. Our participation in 1980 is over 87%, compared to 86% last year. As a government contractor, we need to do everything possible to support our most important customer. By participating in this year's bond program, you have shown such support, at the same time taking advantage of a good way to save.

Dr. L. F. Buchanan

Convair Wins New Contract in Energy Systems Field

Convair has been awarded a contract to perform a conceptual design study for a commercial-size Elmo Bumpy Torus reactor, a type of fusion reaction system that has been under test for several years by the Oak Ridge National Laboratory. Convair is teamed with McDonnell Douglas for this study. Our winning in competition with three other teams also active in energy systems is further evidence that our expertise in this field is recognized. We currently have more contracts involving superconducting magnets than any other American company.

First Engine Strut for Boeing 767 Commercial Jetliner Delivered

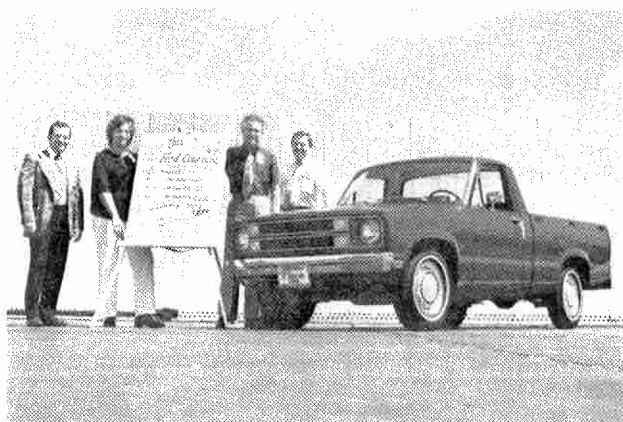


Checking out the first strut shortly before it was delivered to Boeing are Jean Taylor, assembly inspector in Inspection (Dept. 345), and Bob Beknight, aircraft mechanic in Shop Assembly (Dept. 067).

Convair has delivered ahead of schedule the first engine strut to the Boeing Commercial Airplane Company for the 767 wide-bodied, twin-jet aircraft.

During informal ceremonies last week at the Lindbergh Field Plant, Dennis Dunbar, Strut Program director for Convair, turned over the first unit to Charlie Waldrop, Boeing contract manager, and Ed Kilcup, Boeing's resident manager, three days ahead of schedule.

"This is the first major item of structural hardware delivered for the 767 program and marks a significant milestone," Dunbar said. "It is the forerunner of a program that will evolve into a production run of struts for 400 aircraft."



New 1980 Ford Courier — Yours for Only One Dollar

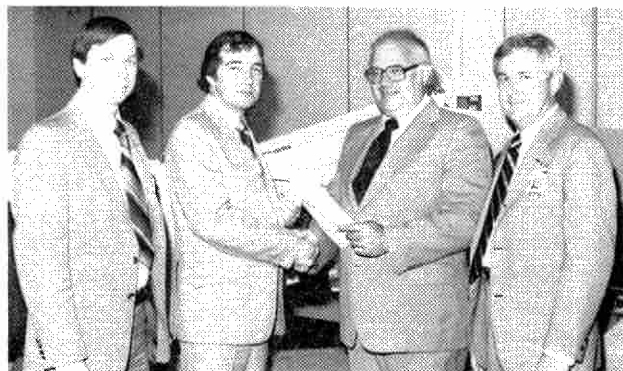
CRA's Jerry Starkey (left), along with Jody Manuel, Bill Mears, and CMA President Norm Keith, proudly display the brand-new 1980 Ford Courier truck someone will win for just a dollar.

Special Drawing Grand Prize at this year's Convair Family Fun Day is a new 1980 Ford Courier pickup truck. The annual CMA-CRA picnic, held in Missile Park, will be on Sunday, August 24. Some lucky person will own this dark-brown gem for a one-dollar donation. A 19-inch color TV and a 40-channel CB radio will also be awarded to lucky Special Drawing ticket holders.

The truck will be on display at Convair facilities from now until picnic time. Tickets are available at the truck and at the ticket outlets posted on your local bulletin board. You may increase your odds of winning by acquiring as many tickets as you desire (checks payable to the Convair Management Association). You do not have to attend the picnic to win.

DC-10 Fuselage Delivered

DC-10 fuselage 344 was delivered to McDonnell Douglas on June 3, on schedule.



Charlie Waldrop (second from left) of Boeing and Dr. Buchanan took part in ceremonies marking delivery of the first strut. Flanking the two are Dennis Dunbar (left) and Bobby Foushee, vice president — Aircraft Programs.

The engine strut turned over to Boeing this month is a test article that will be trucked to Boeing's Wichita facility in Kansas, where it will be used for engine nacelle compatibility fit checks. Four other test struts, as well as the first production strut, will be delivered later this year.

About 250 workers are currently assigned to the strut program on two shifts. Machining is being done at Plant 19. The strut assembly line is in building 4 at the Lindbergh Field Plant.

Thus far, 13 airlines have selected the fuel-efficient 767 for their fleets. Test flights of the Boeing 767 will begin in the fall of 1981, with full certification for commercial service expected in the summer of 1982.

Convair Conducting Six-Month MRASM Program

The U.S. Navy and General Dynamics have begun a series of suitability tests to demonstrate the mission effectiveness of the new medium-range air-to-surface missile (MRASM) when deployed on carrier-based aircraft. Convair is conducting the program for the Department of Defense's Joint Cruise Missiles Project.

Earlier this year, the Department of Defense announced that the MRASM will use the basic Tomahawk cruise missile design to meet joint Navy/Air Force requirements for a medium-range air-to-surface weapon system. The MRASM would be an extremely accurate, nonnuclear, tactical missile with a maximum operational range of about 300 miles.

Objective of the six-month demonstration program is to provide early confirmation of the MRASM's ship and aircraft compatibility. The tests will conclude with the catapult launch of a Navy attack aircraft with a MRASM installed on its wing pylon.

Quarterly Dividend on GD Stock Declared

The board of directors of General Dynamics has declared a regular quarterly dividend of 30 cents per share on the company's common stock and \$1.0625 on its series A preferred stock, payable to shareholders of record on July 18, 1980. The dividend on the common stock will be payable on August 18 and the dividend on the preferred stock on August 15.

Howell, Poehlman Move as Management Interns

Ned Howell, the Pomona Division's participant in the corporate Management Intern Program, arrives today to begin his three months' tour of duty with Jay Hawley to learn the ins and outs of Contracts & Estimating. Ned has already spent some time under the program at Fort Worth, St. Louis, and Electronics.

He is an operations research analyst and was attached to the Manufacturing Engineering Department at Pomona before he became a management intern.

Phil Poehlman, a Convair participant in the program, is leaving for the Pomona Division, where he will learn about the financial management of the aerospace business.

Get Set for Fire and Safety Inspection This Month

It's time to put our house in order. Convair Fire Marshal Carroll Ray will be in charge of detailed fire and safety inspections throughout Convair this month. As usual during these inspections, all areas will be surveyed to ensure that safety regulations and policies are being followed. Supervisors will be alerted whenever unsafe conditions are found.

This time around, Carroll and his crew will place heavy emphasis on good housekeeping because that's where safety starts. A clean, neat, and orderly work area is an important reflection of safe work habits and attitudes. Neatness does count. It can even earn Ray's seal of approval for good housekeeping.

Atlas Performance During Recent NOAA-B Launch

Here is some background on the Atlas launch of the NOAA-B (National Oceanic and Atmospheric Administration) spacecraft on May 29, which ended in mission failure.

Atlas 19F successfully provided the NOAA-B spacecraft with the specified insertion conditions for velocity, altitude, radial rate, and yaw velocity during launch.

The time from liftoff for achieving these specified conditions was delayed because of low performance on booster engine no. 1 (approximately 75% of nominal).

The above conditions satisfy all present missions launched by an Atlas F with the exception of NOAA, since Atlas commands the separation events. The NOAA spacecraft is the only spacecraft using the Atlas booster that initiates its separation sequence independently of any Atlas command. The spacecraft uses its own accelerometer to detect Atlas sustainer engine cutoff followed by vernier engine cutoff and then initiates its separation sequence. Unfortunately, the spacecraft backup separation sequence, which was designed to protect against the failure of its accelerometer, occurred 6.5 seconds before sustainer thrust decay.

The separation sequence was initiated while the Atlas was still thrusting, resulting in mission failure. If the spacecraft had used its accelerometer data or a backup separation command from Atlas, the mission would have been successful.

Improper Parking Costs Over \$70 If You're Towed

If your car is towed away because it is improperly parked on a Convair lot, the bill will run you more than \$70.00. This is the breakdown:

Standard towing charge	\$40.00
Special dolly	20.00
Storage at \$5.00 per day	5.00
Unlock car door (before car is towed)	3.00
Unlock transmission (when car is released to owner)	3.00
	<hr/>
	\$71.00

Here's Help in Vacation Planning

Do yourself and your supervisor a favor — schedule your vacation dates as far in advance as possible. For your information, here is the Convair schedule of holiday time off for the rest of 1980:

Fourth of July	July 4, Friday
Labor Day	September 1, Monday
Thanksgiving	November 27-28, Thursday-Friday
Christmas	December 24-January 1, Wednesday through Thursday of the following week

Choose Your Distance in June 25 Fun Run

The first fun run in a series of monthly runs cosponsored by the CRA Health-Fitness Center and Body and Sole Shoe Stores will be held on Wednesday, June 25, with a 4:45 p.m. start at Missile Park. Designed for people of all ages and fitness levels, the run will offer distances from a half mile to five miles.

The run, refreshments that follow, and prizes in a drawing are all free. Everyone is invited. Family members, too.

Take Family to Sea World at Discount This Month

All General Dynamics employees and their families can visit Sea World at \$2.00 off the regular admission price through June using the discount coupons available at the CRA clubhouse (KM 1111), the CRA sales booth at Lindbergh (LF 4317), or from Jim Pate (KM 1940).

Trips to Mexico, Vegas Among CMA Prizes June 17

The Scholarship Night meeting of the Convair Management Association will be Tuesday evening, June 17, at the Mission Bay Hilton. Prizes awarded in the Scholarship Fund drawing include a trip for two to Acapulco, another to Puerto Vallarta, four trips for two to Las Vegas, dinners, and hotel accommodations. The featured speaker will be NFL referee Jim Tunney. Tickets are \$9 for members and spouses and \$11 for nonmembers.

Next CRA Shape-Up Class Is on June 23

The next shape-up class in the men's and women's fitness program sponsored by the Health-Fitness Center will be at 4:30 p.m., June 23, in the CRA auditorium. If you'd like to join the program, call Marc or Sheryl at KM 1111.

This Week's Film Dips into Cookie Jar of History

Crumbling more orthodox scholarship into dust, "Our Sweet Heritage" explores American history through the stories behind some of the great pastries in our past. You learn who Lorna Doone was and who first put the figs in the newtons. An Archway Cookies production.

At Kearny Mesa, showings will be on Wednesday in classroom 3 of building 17 at 11:00 a.m. and noon. At Lindbergh, showings will be on Thursday in the building 5 auditorium at 11:00 a.m., noon, and 7:30 p.m.

Employment

For the week ending June 1, employment was 8,235.

CONVAIR Weekly Log

June 16, 1980

Published by the Convair Division of General Dynamics



Seth Aldridge (right) receives the award and congratulations from George Blackshaw, vice president for Research & Engineering.

Aldridge Wins 1979 Convair Engineering Award

Seth Aldridge has won the 1979 Convair Engineering Achievement award for his work as chief engineer for the Air Launched Cruise Missile Program. The award states, "From initial AGM-109 design through engineering development and test, he led the engineering team that designed an ALCM missile system which met or exceeded every Air Force specification."

After going to work at Convair in 1957, he did propulsion work on major aircraft programs which included the 880/990 commercial jet transports, Charger, Navy VSX and VSTOL fighters, and the F-111 (he was on loan to Fort Worth for that assignment).

Aldridge joined the cruise missile program in 1975, initially specializing in propulsion work and then heading up the program's technical groups. He became chief engineer of the ALCM program in September 1977.

Speaking of the award, Seth pointed out that 1,200 people, including some 400 engineers and five engineering chiefs, were assigned to the program. "They were an outstanding team and I'm really accepting the award on behalf of all of them and the contributions that each made to the program."

He is now deputy program director of the Antisubmarine Warfare Standoff Weapon Program.

Boo Boo!

In last week's Bluesheet, the Christmas-New Year's holiday schedule was wrong. It should have read: Wednesday, December 24, through Sunday, January 4. Merry Christmas.

Parking at Convair Is Free If You Do It Right

If not, there's that \$70-plus towing fee we reported last week. Here are two infractions to guard against: The in-plant commuter pass is not valid for parking in the commuter zones of a driver's home station. Visitor parking is for visitors only, not for anyone who sees an empty spot.

Inspections are now being made to find violations of these two no-nos. Warnings will be issued only once, we are assured; after that, it's the tow truck.

DC-10 Fuselage Delivered

DC-10 fuselage 345 was delivered to McDonnell Douglas last week, on schedule.

Textbook Resale Plan Initiated

If you are attending inplant courses conducted by the Convair and Electronics Divisions and DatagraphiX, you can now locate buyers and sellers of textbooks used in the various classes. To do so, fill out a card available from Wayne Turner (LF 4564) in Educational Services, building 16 at Lindbergh Field. The cards will also be available in classrooms near the end of each semester. Wayne will file the information by author and title and have it for you to review in his office.

About the New Health Plan

During June, Convair is offering employees a new, third health insurance option: the Greater San Diego Health Plan (GSDHP). Each issue of the Bluesheet for the rest of June will answer questions about the plan. If you have a specific question or are considering enrolling, call Employee Benefits at KM 2558 or LF 1171.

In selecting my doctor, must I pick one from the Primary Care Physician List?

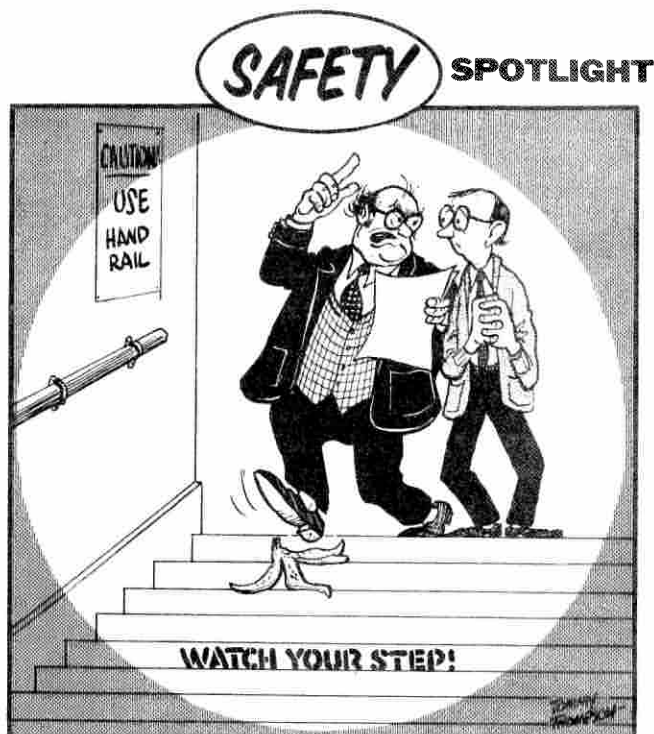
Yes, except in certain very limited circumstances. If you are currently under care of an M.D. who is listed as a specialist and that doctor agrees to care for *all* your primary health needs, the physician may be listed as your Primary Care Physician — if the GSDHP consents to this arrangement.

I don't know any of the physicians on the list. How do I pick one?

There is no one answer. You may wish to call one or two on the list to discuss your and your family's health needs before deciding. Whatever way you choose, consider the matter carefully, since the relationship you establish with the doctor you select is the basis for all services rendered under the GSDHP. If you become unhappy with the M.D. you selected, contact the GSDHP to discuss selection of another physician.

Why isn't my doctor on the list?

The most common reasons are that your physician is not a member of the San Diego County Medical Society or already has a practice too large to take on new patients through the GSDHP and therefore has elected not to join at this time.



"Mark my words, Smithers. I'll get to the bottom of this!"

Atlas Selected for Five DoD Launches

Atlas space launch vehicles have been selected to boost five satellites in the Defense Meteorological Satellite Program (DMSP).

The Air Force Space Division last month announced use of the Atlas to launch the Department of Defense's environmental probes beginning next year. Value of the five new Atlas missions is about \$40 million.

Dr. Buchanan said, "Selection of the Atlas by the Air Force for these important DoD missions confirms the confidence in the launch vehicle by our customers. Atlas, which began as a very advanced concept, continues to grow in capability. It provides a cost-effective and reliable system for the Air Force and the National Aeronautics and Space Administration."

The Atlas launch vehicles to be used for the DMSP will be E models now stored at Norton Air Force Base, California. They will be refurbished by Convair personnel at Vandenberg as part of the company's Vandenberg Atlas Modification Program (VAMP). The Convair team will replace and update the vehicle's electrical and avionics systems as part of the program to ready the Atlas for flight.

Tech Papers Presented in June

Dr. Cheng Donn, Advanced Space Systems (Dept. 950-0), presented his paper "Flare Angle, Corrugation Depth, and Phase Center Aspects of Corrugated Horns" at the Antennas and Propagation Society's International Symposium in Quebec the week of June 2.

Jack Stahl, Advanced Design (Dept. 673-0), will present his paper "Cornerstones of an Effective Training Program for Computer Graphics Operators" at the First National Conference of the National Computer Graphics Association Meeting in Washington this week.

Although Jim Denovchek, Systems Engineering (Dept. 678-0), can't be there to present it, his paper "High-Altitude Launch of a Cruise Missile" will be printed in the proceedings of the 1980 conference of the Association of Unmanned Vehicle Systems, which is being held in Dayton this week.

Three Convair engineers will present papers at the Sixteenth Joint Propulsion Meeting in Hartford, Connecticut, which begins on June 30:

- Fred Merino, Thermodynamics (Dept. 696-0), "Capillary Device Refilling" (another engineer will deliver Fred's paper).
- Dan Heald, Preliminary Design (Dept. 611-0), "Orbital Transfer Vehicle Evolution to the 1990s."
- Bill Ketchum, also of Preliminary Design, "Low Thrust Transfer of Large Space Structures."

Stock Plan Values for April

Here are the unit values in dollars for the General Dynamics savings and stock investment plan as of April 30, 1980.

For salaried employees: government bonds, 2.4067; diversified portfolio, 1.6709; fixed income, 1.0799; and GD stock, 67.75.

For hourly employees: government bonds, 2.4047; diversified portfolio, 1.7044; and GD stock, 67.75.

"Where's the Truck?"

The word is out that Convair Family Fun Day, the annual CMA-CRA picnic, will be held in Missile Park on Sunday, August 24. But the whereabouts of the truck some lucky person will win isn't so well known. That's the brand-new 1980 Ford Courier pickup — grand prize in the Special Drawing at the picnic.

The truck has been on display at Lindbergh Field, but will soon be seen at the other Convair facilities:

June 16 through 18 - Plant 19
June 23 through July 11 - Kearny Mesa
July 14 through 25 - Lindbergh Field
July 28 through August 1 - Plant 19
August 4 through 22 - Kearny Mesa
August 24 - Missile Park

Tickets for the Special Drawing are available at the ticket outlets listed on the flyer on your bulletin board, and at the truck during lunch periods and shift changes. Donations are \$1 each, and tickets are unlimited. You do not have to attend the picnic to win.

Special Bus for El Cajon-Lindbergh Commuters

Special bus service from El Cajon to the Lindbergh Field plant and Plant 19 is now available to first-shift employees. This express system, a private enterprise not affiliated with General Dynamics, offers an opportunity to beat traffic, parking, and gasoline problems, and to provide a car for the spouse, as well.

The yellow school bus, "Paul's Line," leaves El Cajon near the Parkway Plaza shopping center at 6:15 a.m. It stops at LF gates 1 and 2 and at Plant 19 gate 5 so that employees arrive at both stops before 7:00 a.m. The return trip starts from LF at 3:40 p.m., stops at Plant 19, and then goes directly back to El Cajon.

Cost depends on the number of passengers, as it does in a car pool. For information and signup, call Bruce Smith at 579-5236 between 5:00 and 9:00 p.m.

Ridership is open to all General Dynamics employees.

See Laguna Art Festival on Friday, July 25

CRA Travel has a few seats left for the one-day trip to the Laguna Art Festival on July 25. Tickets include transportation by chartered bus, boxed chicken dinner with wine, the art show, and the Pageant of the Masters. The price is \$20. Get tickets at the CRA Travel office in the clubhouse (KM 1111), Tuesday from 3 to 9 p.m. and Wednesday from 11 a.m. to 6 p.m.

Join Trip to Mazatlan over Labor Day Weekend

You fly via PSA from San Diego for a fiesta Mexicana in Mazatlan, August 28 to September 2. The package tour includes the PSA roundtrip, five nights at the Playa Mazatlan, city tour, tips and baggage, welcome cocktail, and the fiesta. The price is \$350 each, double occupancy. Shirley Nowlin (KM 1163) is in charge, on behalf of the Convair Management Association. She asks for a \$100 deposit now and the balance by June 30. Good idea to reserve now, she says. Space is limited.

Intermediate Square Dance Class Starts Tomorrow

The CRA Square Dance Club is offering a square dance class that meets every Tuesday at 8:15 p.m. in the CRA clubhouse, starting June 17 and ending September 2. The first three sessions will be devoted to brushup at the intermediate level. Call the CRA clubhouse (KM 1111) or Commissioner Ed Brady (LF 4159).

Shape Up for Summer Starting Next Monday

The next shapeup class at the CRA Health-Fitness Center begins on June 23. The class meets Monday, Wednesday, and Friday from 4:30 to 6:30 p.m. for six weeks. Call Sheryl or Marc (KM 1111).

Los Angeles Airport Featured in This Week's Film

"Flight Patterns," produced by the Los Angeles Department of Airports, focuses on LAX to show how a complex, modern airport operates.

At Kearny Mesa, showings will be on Wednesday in classroom 3 of building 17 at 11:00 a.m. and noon. At Lindbergh, showings will be on Thursday in the building 5 auditorium at 11:00 a.m., noon, and 7:30 p.m.

Employment

For the week ending June 8, employment was 8,243

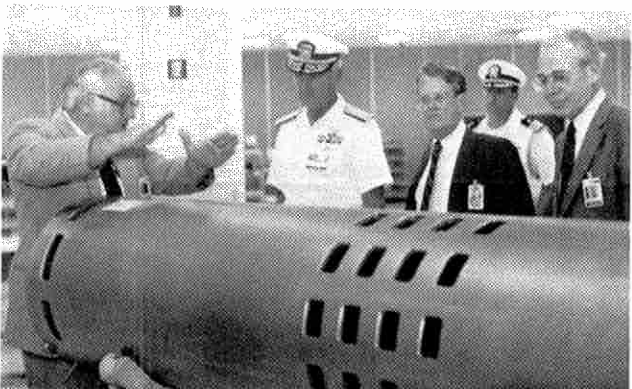
CONVAIR Weekly Log

Published by the Convair Division of General Dynamics

OVER 12,000 IN ATTENDANCE

Annual CMA/CRA Picnic was Big Success

Convair Family Fun Day, the annual CMA/CRA picnic, was a rousing success with food, frolic, and fun and games. The estimate for the crowd in attendance at Missile Park on August 24 ranges from 12,000 to at least 7 million — judging from where people had to park!



Admiral A.J. Whittle, Chief of Naval Materiel, and his aide, Commander Deyer, visited Convair on Friday, August 22, for briefings on Tomahawk and MRASM plus a tour of our cruise missile facilities. Admiral Whittle, above center, is flanked by Dr. Buchanan, left; Oliver Boileau, General Dynamics president; and Bill Dietz, vice president and program director of cruise missiles.

DoD Statement on August 16 Tomahawk Flight

The Department of Defense released this statement following the August 16 Tomahawk flight.

"A U.S. Navy Tomahawk cruise missile was launched today from a Navy A-6 aircraft at approx-

imately 11 a.m. (PDT) at the White Sands Missile Range, New Mexico. After launch, the missile's wings deployed but the missile descended to impact on the range. The engine had been started prior to launch. There was no damage to property or personnel. The cause of the difficulty is under investigation. This was the 54th flight test of the Tomahawk Cruise Missile."



imately 11 a.m. (PDT) at the White Sands Missile Range, New Mexico. After launch, the missile's wings deployed but the missile descended to impact on the range. The engine had been started prior to launch. There was no damage to property or personnel. The cause of the difficulty is under investigation. This was the 54th flight test of the Tomahawk Cruise Missile."

DC-10 Fuselage Delivered

Fuselage No. 353 was delivered August 27, on schedule.



GD Appreciates Long-Standing Service

A special thank you was extended at a recent breakfast meeting to those employees who had attained 35 or more years of General Dynamics service in August. Dr. Buchanan hosted the breakfast. Outstanding company veterans — we salute you!

FLIP

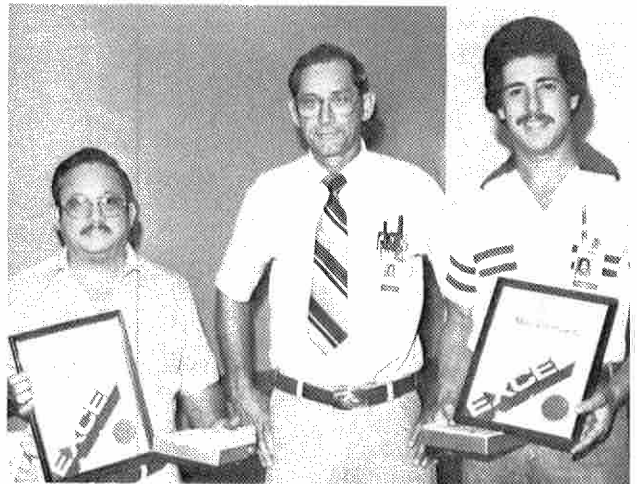
Savings and stock investment plan values for June.
Here are the plan values in dollars for the corporate savings and stock investment plan as of June 30, 1980.

	Salaried	Hourly
Government bonds	2.4811	2.4790
Diversified portfolio	1.8048	1.8413
GD stock	66.12	66.12

Preretirement Planning Seminar Still Has Openings
A few openings remain for the six-week Preretirement Planning Seminar on Wednesday evenings from 6:30 to 9:30 starting September 17.

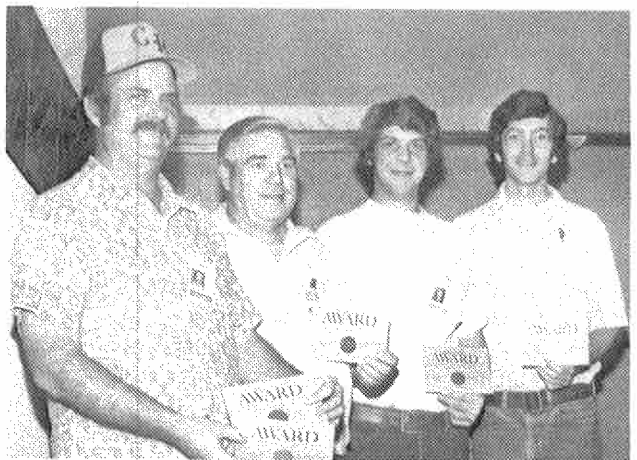
Also, a two-week session is available on consecutive Saturdays from 9 a.m. to 4 p.m. on September 6 and 13. This is the only Saturday seminar planned for this year, so make your reservations now if you can't attend the evening sessions.

All sessions will be in the Presentation Room, building 2, at Kearny Mesa. Spouses are encouraged to attend. Reservations are required — to make yours, call KM 2267.



Department 015 group leaders, Mike Criscuolo and Pete Flores, were presented Excel awards for their outstanding contributions toward improving machine shop performance and training new Convair employees. Both Mike and Pete work on first shift in the conventional mills section of building 1 at the Lindbergh Field Plant. Making the award was Howard Dickey, operations supervisor. (Left to right: Pete Flores, Howard Dickey, Mike Criscuolo.)

Las Vegas High Rollers Weekend November 21-23
Plan now to join in the fun of the CMA-sponsored Las Vegas High Rollers weekend November 21 through 23. First-class accommodations will be at the Maxim Hotel and Casino. Included will be round-trip, air-conditioned coach bus transportation with refreshments and prizes en route. The cost is \$185 per couple. All reservations and money are due by October 10. Call Judy at LF 8247 to reserve a space.



Department 015-0 Machine Shop employee suggestion awards for June and July were made to: (left to right) Richard Monroe, Elmer Glynn, Michael Pettigrew, and Kipp Pepin. Not shown were Kenneth McCoy, Francis Schrosk, Crystal Cox, Reeves McCray, James Cobb, Van Shiffer, and Larry Tuttle. These awards represent more than \$9,000 savings to the Convair Division.

Sign Up Now for CRA Basketball League

Attention basketball coaches! The last day to enter your team in the CRA Basketball league is September 19. To enter, call Willie Pitts at ED 3203. The first coaches meeting will be on Tuesday, September 23. Get ready now for the upcoming season.

Enter CRA Golf Tournament by Next Monday

Golfers interested in competing in the CRA Baja Mar Golf tourney should make their entries by Sept. 8. Call the CRA Clubhouse KM 1111 for details.

New Rock a'Robics Class Next Week

Free Rock a'Robics classes will be held Wednesday, September 10, at 4:30 p.m., and Thursday, September 11, at 9:30 a.m. and 4:30 and 5:25 p.m. in the CRA auditorium. If you saw them at the picnic, then you know how much fun they have. A new five-week session will begin on Monday, September 15, with classes meeting every Monday and Wednesday at 4:30 p.m. and every Tuesday and Thursday at 9:30 a.m. and 4:30 and 5:25 p.m. The fee for five weeks of unlimited classes is \$18. Be sure to wear comfortable clothes and tennis or jogging shoes. For more information, call CRA at KM 1111 or Pam Koch at 276-3559 (evenings).

This Week's Movie Features Steelmakers

Men, women, and steel are the subjects of this film. It takes the viewer from the coal-dark depths of the earth through the fiery interior of a steel mill to the bustle of a shipyard. In the course of this trip, the men and women involved in every phase of steelmaking talk about their jobs and their satisfaction in helping to produce the mighty wonder — steel.

At Kearny Mesa, showings will be on Wednesday in classroom 3 of building 17 at 11:00 a.m. and noon. At Lindbergh, showings will be on Thursday in the building 5 auditorium at 11:00 a.m., noon, and 7:30 p.m.

'Cinderella' Auditions September 5, 6, 7

The General Dynamics Performing Arts Club is preparing for its fall production of Rodgers and Hammerstein's "Cinderella." Auditions will be held on Friday, September 5, from 7 to 10 p.m. and on Saturday and Sunday from 1 to 5 p.m. All auditions will be in the Dyna-Mikes room at the CRA clubhouse.

Director Maggie Bowman is looking for people to fill 12 speaking/singing roles, as well as for dancing chorus members and musicians. Producer Jake Jacobsen is looking for people interested in production jobs. Contact Jake at KM 1850 or Dr. Bowman at KM 3798 for further information.

Quote of the Day

An expert is one who knows more and more about less and less

Nicholas Murray Butler

... Then there are some of us who in our later years realize that we know less and less about more & more. . .

Anything You Can Do They Can Do, Too

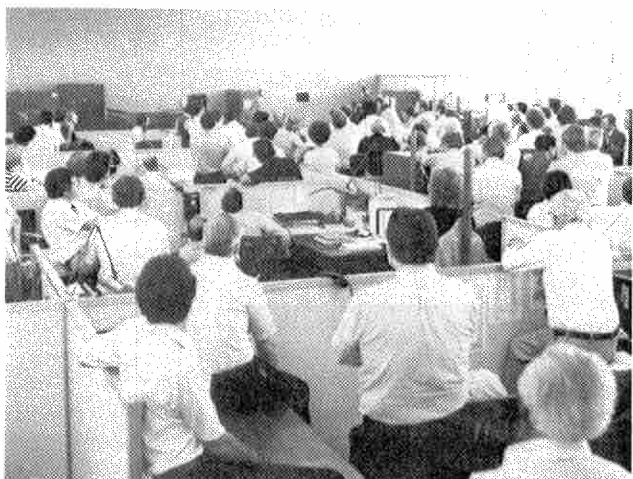
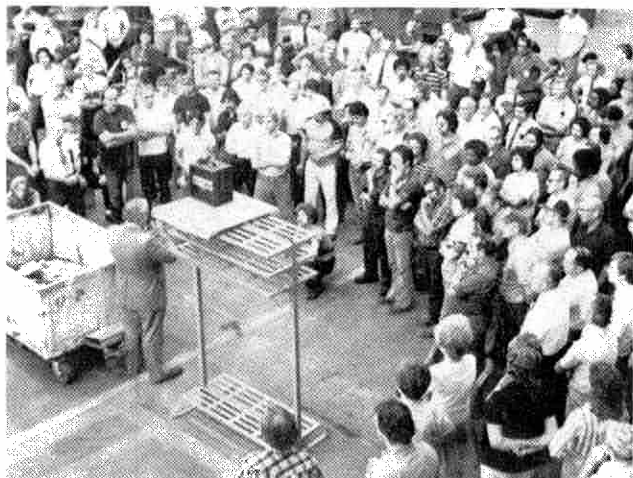
While you flex your muscles in front of your morning mirror and congratulate yourself on your nimble brain, consider this: The light over your mirror was perfected by a deaf man. While your morning radio plays, remember the hunchback who helped invent it. If you listen to contemporary music, you may hear an artist who is blind. If you prefer classical, you may enjoy a symphony written by a composer who couldn't hear. The president who set an unbeatable American political record could hardly walk. A woman born unable to see, speak, or hear stands as a great achiever in American history. The handicapped can enrich our lives. Let's enrich theirs.

Employment

For the week ending August 24, employment was 8,406.

CONVAIR Weekly Log September 8, 1980

Published by the Convair Division of General Dynamics



Employees at Lindbergh Field and Kearny Mesa gathered last Wednesday and Thursday to hear Dr. Buchanan speak on employee program support.

Dr. Buchanan Brings Good Word to Employees

Dr. Buchanan spent last Wednesday and Thursday visiting Convair employees at Lindbergh Field and Kearny Mesa to talk about current programs, the potential for additional sales, and new business prospects. He indicated that our prospects are very good.

Dr. Buchanan also pointed out several areas where employees can reduce costs, improve communications, and develop new and better ways to build the parts that make up Convair's products.

Though the two-day schedule was demanding, the walk-around was a welcome activity for our general manager, who took the opportunity to ask that Convair employees help solve problems by communicating them to those who can take appropriate action.

LVP Support Group Holds Program Orientation

The need for employee support of current and future programs was stressed at the recent briefings organized by Karl Kachigan, director of LVP Engineering. An estimated 300 employees gathered for briefings on current and future plans for Atlas, Atlas-Centaur, Titan-Centaur, Space Shuttle midfuselage, and the Centaur in Shuttle programs, some of which have commitments through 1985 with potential to 1990. Employees from departments supporting these programs were urged to give their full support now and in the years ahead.

Fuselage No. 355 Delivered

DC-10 fuselage No. 353 again? For those of you who noticed that we sold DC-10 fuselage No. 353 twice — not so. Last week's note should have read No. 354. DC-10 fuselage No. 355 was delivered September 5 — right on schedule. Currently scheduled to receive fuselage No. 355 is Varig Airlines, a South American carrier.

CMA Seminars

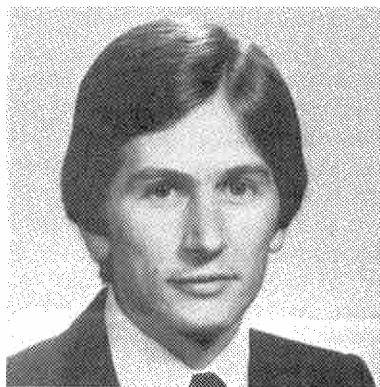
Memory Seminar: Due to an enthusiastic response, enrollment for the one-hour seminar on Tuesday, September 9, from 4:30 to 5:30 p.m. is closed. No further reservations will be accepted. For those who have signed up already, the seminar meets from 4:30 to 5:30 p.m. in the Kearny Mesa Presentation Room, building 2. Memory expert David Markoff will lead this free seminar.

Discussion for Learning: Learn practical techniques for leading group discussions. The six-session seminar will begin September 10 at Kearny Mesa and October 8 at Lindbergh Field. Course fees are \$2 for CMA members, \$4 for nonmembers. Sessions are 90 minutes long. Call Gary Kranz at KM 1948 or Wayne Turner at LF 8564. Enrollment is limited.

Effective Negotiating: The strategy of power and influence, setting reachable targets, and tactics to keep the initiative are among the topics during the lunchtime discussions. The 12-week discussion seminar begins at Kearny Mesa on September 8 and 11 and at Lindbergh Field on September 11. Enrollment is limited to 15, and the September 8 seminar has been filled. Call Gary Kranz at KM 1948 or Phil Rader at LF 8128.

Women in Management: A frank discussion of problems and opportunities women face as they enter management. Open to all employees, the course begins at Kearny Mesa on October 8. Caroline Miller will lead the 90-minute sessions open to all Convair employees. Call Shirley at KM 3456 or Gary Kranz at KM 1948 for further information.

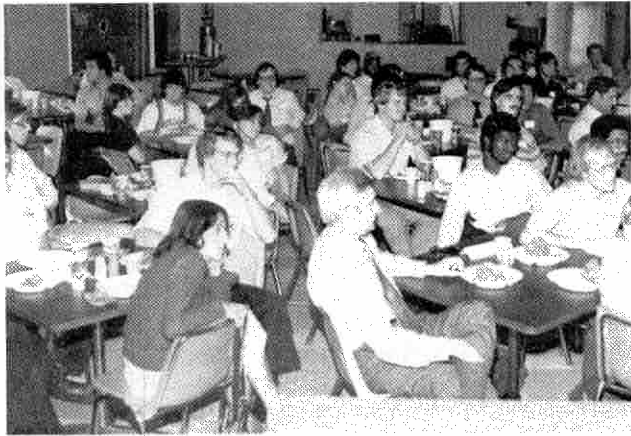
Certified Manager: Administrative Skills: This professional designation is available to dedicated managers who have attained knowledge through experience, personal development, and education. It also serves as recognition for achievement and contributions to the field of professional management. Instructor Jim Matthews will conduct this six-week seminar. The class will meet Tuesdays from 4:30 to 6:30 p.m. at Kearny Mesa beginning September 16. Call Gary Kranz, KM 1948, for details.



Louis Eidenmiller Returns to Convair

Corporate Management Intern Louis Eidenmiller returned to home base and is working with Jay Hawley in Contracts & Estimating. Louis has spent the past 12 months at Pomona, corporate headquarters, Fort Worth, and Electronics working in different departments for three months at each location.

Prior to his nomination to the Corporate Management Intern Program, Louis served as an operations representative in the Cruise Missile Final Assembly. He holds a bachelor of science degree in mechanical engineering from Cal Poly San Luis Obispo, and is progressing toward a master's degree in business administration at San Diego State University. He joined Convair in June 1975.



Above, Dr. Buchanan chats with some of the 60 summer interns at the recent picnic.

Interns Wind Up Summer Program With Picnic

The Summer Intern Program concluded August 19 with a picnic dinner in Missile Park attended by 60 student interns and 30 management staff members. Dr. Buchanan joined in the festivity and reemphasized the value of this work experience for the interns in their education and for industry when experienced graduates enter full-time employment.

Junior and senior students in the program sponsored by the College Relations department represented 36 universities from 18 states. The program helps identify top graduates and attracts valuable employees to General Dynamics.

Send Us News

Please send news articles to the *Weekly Log* (aka Blue Sheet) at MZ 11-1331, or call Don Davis at KM 2312 or Jack Smothers at KM 1109. Deadline is 8:00 a.m. Thursday for the following Monday's edition.

Vending Machine Sells Stamps

The U.S. Postal Service has installed a vending machine in the northeast corner of the mail room at Kearny Mesa, building 4. The machine will sell stamps at actual cost: a book of eight 15-cent stamps for \$1.20. The machine also sells post cards, prestamped envelopes, international postage, and aerogrammes. The continuation of this service depends on the continued patronage of Convair employees.

Convair Toastmasters Offer Speechcraft Course

Want to improve your abilities in making a presentation or speech? Convair Toastmasters Club No. 3745 will conduct a speechcraft course to help you do just that. It also qualifies as a CMA Management Course credit for the CMA Management Certificate and the fee is \$5. The eight-week course starts October 1, and will be held each Wednesday, 5 to 7 p.m. at the CRA Clubhouse, room C. Enrollment is limited, so register now. Contact Bill Baer, KM 1485, or Gary Stachwick, KM 1768.

Convair Bulletin Board Etiquette

Do not post political flyers or religious tracts on in-plant bulletin boards. This practice is totally contrary to the purpose of the boards, and bulletin board monitors will immediately remove any such material.

UCSD Extension Courses

Several new engineering courses are offered this fall by UCSD Extension, the continuing education arm of the University of California in San Diego.

"Airplane Design, Part I" is a ten-meeting course scheduled for 6:30 to 10:15 p.m. Mondays, September 29 through December 1 in the Canyon Room Area of the University Towne Centre, 4545 La Jolla Drive. The fee is \$220.

A weekend program scheduled for October 24 through 26 is titled "The Use of CAD/CAM in the Aerospace Industry" and will be taught by Michael Felix, Ph.D., CAD/CAM project manager at Convair, and Michael Burz, M.S., senior design engineer at Convair. The course will be held from 6:30 to 9:30 p.m. on Friday, October 24; 9 a.m. to 4:30 p.m. on Saturday, October 25; and 10 a.m. to 4:30 p.m. on Sunday, October 26, at Convair, Kearny Mesa. The building and room number will be announced. The fee is \$250.

Another new program offered through UCSD Extension this fall is "Concepts of Discrete Signal Processing," scheduled for 9 a.m. to 5 p.m., Friday through Sunday, November 7 through 9. The first session will be held in UCSD Extension Classroom 1, 9600 North Torrey Pines Road, and the November 7 through 9 meetings will be held in Room 1106 of the Humanities & Social Sciences building on UCSD's Muir Campus. The fee is \$250.

For more information on these engineering programs, call UCSD Extension at 452-3400 and ask to be mailed the free engineering brochure.

CRA HFC Permanent Weight Loss Workshop

The first workshop series was so successful that the HFC is offering a second program beginning September 24. The class will meet from 6:30 to 9:30 p.m. for four consecutive Wednesdays. Register with Sheryl Marks, KM 1111. Fee for the 12-hour workshop is \$80.

Brush Up Now For Holiday Ballroom Dancing

Come brush up in time for the holiday dancing season at the CRA ballroom dancing classes starting Monday, September 15 at 7 p.m. in the clubhouse auditorium. The first hour of class will be devoted to beginning students and all those not familiar with the Chaney dancing method. New steps and styling tips will be taught to intermediate students in the second hour. Cost for ten lessons will be \$20 per couple. For more information, contact Royce Riggan at KM 3276.

Sailing — Do It Right, Keep It Safe

Small craft sailors are the focus of this week's film illustrating aspects of sailing that give the sport its special appeal. The film also reviews some boating basics such as the terms, techniques, equipment, and safety fundamentals of boat handling.

At Kearny Mesa, showings will be on Wednesday in classroom 3 of building 17 at 11:00 a.m. and noon. At Lindbergh, showings will be on Thursday in the building 5 auditorium at 11:00 a.m., noon, and 7:30 p.m.

Employment

For the week ending August 31 employment was 8,407.

CONVAIR Weekly Log

September 15, 1980

Published by the Convair Division of General Dynamics



Phyllis Spechko assumes new role.

Meet Our New Adult Nurse Practitioner

Phyllis Spechko, RN, BS, NP, assumes the new role of Adult Nurse Practitioner on the Medical Department staff at Convair this week. Since September 1978, Phyllis has completed 47 university quarter units and 600 clinical hours through the UCSD Extension Program and the UCLA School of Nursing. Phyllis comes from a medically oriented family. Her father was a physician. Her mother and two sisters are practicing nurses, the mother and one sister as Nurse Practitioners. Phyllis' early nursing career led her to a staff position in a U.S. Army hospital in Nuremberg, Germany, for 15 months. Later, she was assistant director of Nurses at a La Jolla hospital. Her interest then turned to occupational health and before coming to Convair in September 1977, she was a staff nurse at Rohr Industries and then a health nurse at the International Distributing Company.

New Food and Vending Services

Starting today, food services at Kearny Mesa and Lindbergh Field will be provided by a new food and vending contractor. During the next few weeks, all current vending equipment will be replaced by new equipment, including "Grand Gourmet" vending machines. The transition is scheduled to be completed by October 20.

The new contractor, Canteen, is committed to providing the best possible service and food quality at reasonable prices. As in the past, all vending proceeds received from Canteen go directly to the Convair Recreation Association to support its programs.

This change will provide improved services to employees and greater revenue for CRA.

We're on Winning Team for the Elmo Bumpy Torus

The Department of Energy has announced that the McDonnell Douglas/General Dynamics team won the Elmo Bumpy Torus Proof of Principle (EBT-P) fusion reactor program. Convair will design, fabricate, and test 40 one-meter-diameter superconducting magnets, as well as the operating electrical systems. This magnet system will be supplied to McDonnell Douglas, the prime contractor.

The EBT is considered the most promising second-generation fusion reactor concept. It follows first-generation tokamak and mirror machines. The EBT concept is a hybrid configuration that combines many attractive features of tokamaks and fusion mirror machines.

The competition included three other teams: Westinghouse, Grumman/General Electric, and Ebasco/TRW/General Atomic.

This will be Convair's first opportunity at multiple production in the superconducting magnet area. Previous contracts have been for one-of-a-kind magnets. The program manager is Sam Ackerman. The chief engineer is Dennis Lieurance.

Power Off at Plant 19 on September 21, 28

All electrical power in all buildings and yard areas at Plant 19 will be turned off on Sunday, September 21, from 7 a.m. to 3:30 p.m.

Power in all buildings and yard areas except building 1 will be turned off on Sunday, September 28, also from 7 a.m. to 3:30 p.m.

GD Savings and Stock Plan Values for July

Here are the unit values in dollars for the corporate savings and stock investment plan as of July 31, 1980.

Salaried

Bonds	2.4762
Diversified	1.8771
Fixed income	1.1072
GD stock	73.125

Hourly

Bonds	2.4742
Diversified	1.9151
GD stock	73.125

ETR Softball Team Heads for Victory

With 14 wins and just one loss in the 1980 season, the Convair Eastern Test Range softball team heads into the regional playoffs with a full head of steam. The team was very strong last year with an undefeated season record and, through an excellent winter draft, has added the talent to this year's team that should successfully take them through this year's playoffs. Go for it, ETR!

DC-10 Fuselage Shipped

We shipped DC-10 fuselage 356 to McDonnell Douglas on September 11, one day ahead of schedule.

FLIP

At Kearny:**ID Office, Central Med Entrance Move**

The Kearny Mesa ID office is now in the space that had been the reception room of Central Medical: building 1, first floor, with entrance on the south side, opposite building 26. Office hours are Monday through Friday, 7:30 to 8:30 a.m. and 11 a.m. to 3 p.m. Second- and third-shift employees may renew their identification badges or have them repaired by appointment. Call Plant Protection at KM 1898 or LF 8244.

The new entrance to Central Medical at Kearny is now inside building 1, south of the passenger elevator. Hours remain the same: Monday through Friday, 7 a.m. to 4:15 p.m. At all other times, report injuries to the Fire Department, building 6, KM 1811.

SD Junior Achievement Seeks Advisors

If you'd like to help some ambitious San Diego youths, here is your opportunity. Junior Achievement of San Diego is seeking volunteers who can assist the enterprises sponsored and approved by the organization. If you are interested in contributing about one hour per week, call Mel Watling, LF 8069, for details.

Keep Cool During Emergency Calls

When you're calling the ambulance (1555 at KM and 6555 at LF) to report an emergency, don't be the first to hang up. That's important for both the emergency personnel who'll respond and the victim. During the call, remain as calm as possible and remember the three Ws — Who, What, and Where.

Tell the answering fireman who the person is (name isn't necessary, but saying whether it's a male, female, and approximate age is helpful), what you think might be the problem (visible injuries, whatever), and where the victim is (building, room number, and area). Then have someone stand by to lead the ambulance crew to the victim when it reaches the area.

Making sure you've relayed the three Ws will help emergency personnel with their job and, perhaps most important, could save a life.

Tickets to September 20 Clippers-Lakers Game \$1

Tickets to the Clippers game against the Lakers on September 20 are on sale at the CRA salesbooth for \$1 each. The limited number of tickets will be sold on first-come, first-served.

Get Fitness Profile September 24

How much fat do you carry? Find out when you go through the tests for the complete fitness profile offered by the CRA Health-Fitness Center. The next testing date is September 24. Call Sheryl Marks at KM 1111 to make an appointment. The fee is \$10.

EVERYONE'S INVITED**Santa Maria Barbecue September 26-27**

Games, prizes, contests, rides, and dancing to live Western music are among the side orders at the Santa Maria Barbecue weekend September 26-27 in Missile Park. All Convair employees, families, and friends are invited. Camp out overnight Friday and/or Saturday; reserve with wagonmaster Truitt Shipley (KM 2349).

On Saturday, games start at noon. The barbecued top sirloin dinner will be served starting at 3 p.m. Two round-trip PSA tickets to San Francisco are among prizes in the drawing starting at 5 p.m. Dancing will be from 7 to 11 p.m.

Tickets are the same price as last year: \$4.75 for adults and \$2.25 for children 12 and under. Get tickets from CMA member reps, Maynard Bjorstrom (KM 2638), Ben Wier (KM 2265), Lou Lau (LF 8197), Wally Dawson (LF 8061), or Dick Clavert (87-3697).

Weekend in Palm Springs November 7-9

Need a little R & R? If so, plan now to join the weekend excursion to Palm Springs November 7-9. The coach bus will leave the CRA clubhouse on Friday, November 7, at 4 p.m. Enjoy a hospitality bar when you arrive. Saturday activities include downtown shopping, tram ride to high up on Mount San Jacinto, and plenty of time to enjoy restaurant row. Depart for San Diego on Sunday at 4 p.m.

The price of \$165 per couple includes round-trip transportation, the tram ride, and accommodations. Make reservations with Bill (KM 2855) before the October 10 deadline. The trip is being sponsored by the Convair Management Association.

Weight Loss Workshop Begins September 24

The CRA Health-Fitness Center is offering a second Permanent Weight Loss workshop beginning September 24. The class will meet from 6:30 to 9:30 p.m. on four consecutive Wednesdays. Register with Sheryl Marks (KM 1111). Fee for the 12-hour workshop is \$80.

This Week's Movie Weaves Apparel Story

"Fabrics - How They Can Serve Us Better" discusses how choosing the right fabric can make a difference in how your clothes will look and wear.

At Kearny Mesa, showings will be on Wednesday in classroom 3 of building 17 at 11:00 a.m. and noon. At Lindbergh, showings will be on Thursday in the building 5 auditorium at 11:00 a.m., noon, and 7:30 p.m.

Employment

For the week ending September 7, employment was 8,414.

CONVAIR Weekly Log

September 22, 1980

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Employees' Con-Trib Club Campaign Starts Today

The annual Employees' Con-Trib Club membership campaign begins today and runs through September 26. The goals of the campaign are to increase the number of Fair Share members and to sign up all employees who are not now members.

A substantial percentage of Con-Trib funds is pledged annually to the local United Way and CHAD (Combined Health Agencies Drive) campaigns. Agencies not affiliated with United Way or CHAD are funded at the discretion of the club's Board of Directors.

The Employees' Con-Trib Club maintains an emergency aid fund to assist employees and their families who are facing unexpected financial situations beyond their control — for example, medical expenses not covered by insurance, an unusual and uncontrollable loss of wages, or a situation where a family without food or shelter would be helped temporarily.

Convair Utilities Bill Reaches New High

Electrical rate increases of 70% compared to a year ago mean that every wasted kilowatt-hour wastes 70% more money than it did a year ago. Our total utilities bill for August was \$958,769. Electricity alone was \$822,641. Natural gas cost \$98,886 and water \$37,242.

So please — when you leave your work area, turn off all unnecessary lights. Use natural light whenever it's sufficient.

Salvage Yard Sale at Lindbergh October 4

Desks, chairs, and building materials will be among items offered at the Lindbergh Field salvage yard sale from 8 a.m. to noon on Saturday, October 4. Use the Washington Street entrance, bring some company ID, and wear sturdy shoes. Sales are cash and carry.

Computer Program Can Improve Programming 500%

Managers and analysts with modeling and simulation needs can increase programming productivity as much as 500% over Fortran programming by using SIMSCRIPT II.5. For further information, call John Martin of the Western Data Systems Center Simulation Engineering Group (551-1). John is at KM 1825.

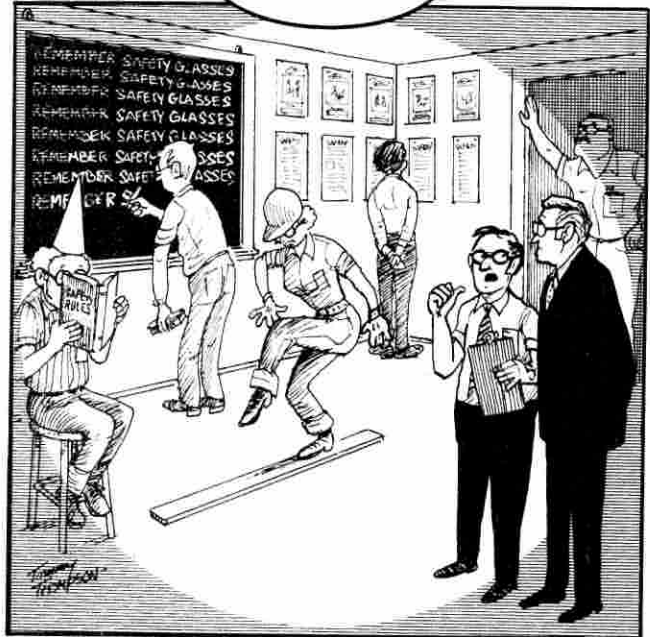
Society for Computer Simulation Meets Here Friday

The Western Data Systems Center, in conjunction with the Convair Division, is hosting the September meeting of the Society for Computer Simulation, Western Region. It will be held here on Friday, September 26. Topic of the meeting, which begins at 10 a.m., will be Real-Time Simulation with Graphics on MIDI-Computers.

Road Work at LF Washington St. Gate Under Way

Construction work is now in progress to improve the traffic flow at the Washington Street entrance to the Lindbergh Field plant. Ultimate plans call for four lanes of traffic, two each into and out of the parking area. A new traffic signal will be installed. Demolition of the old Marine Corps sentry shack and fence is scheduled to begin today.

SAFETY SPOTLIGHT



"Ex-kindergarten teacher —
but his group does have the best safety record!"

Good safety habits help prevent accidents — help save lives.

Access to and from the plant will be maintained with minimum interference during the coming weeks as repaving, striping, landscaping, etc. are done. Your cooperation and caution during this period will be appreciated.

Power Off at Plant 19 on September 28

Electrical power in all buildings and yard areas except building 1 will be off at Plant 19 on Sunday, September 28, from 7 a.m. to 3:30 p.m.

MEETS WEDNESDAY

CMA Explorer Scout Post Seeks Members

Explorer Post 2020, sponsored by the Convair Management Association, is looking for new members for the coming school year. Intended for young men and women of high school age, Exploring is a coeducational branch of the Boy Scouts of America. Exploring emphasizes the career, social, and leadership development of young adults and not merit badges, woodcraft, and the other more traditional scouting activities. Outdoor activities are not excluded, though.

The CMA Explorer Post is involved in many aspects of aviation and the aerospace industry. Career opportunities in the aerospace field are stressed. Ongoing and future activities of the post include model rocketry and radio-controlled model airplane flying, ground school, trips to air shows, aerospace plant tours, and career-

FLIP

oriented lectures in such fields as engineering, computers, and aircraft maintenance. Post members have diverse interests and talents, so activities will not be limited to the above areas.

Membership is open to any young adult 14 to 20 years of age and is not restricted to dependents of Convair employees. For more information, call Mike George at KM 1636.

The next meeting of Explorer Post 2020 will be this Wednesday, September 24, at 7:30 p.m. in the CRA clubhouse.

Janet Richards Wins Toastmasters Contest

Janet's all smiles. That's because she won the humorous speech contest held last week for Area 9 Toastmasters members. The title of her talk was "Topic Search." Janet, who represented the Lindbergh Field Toastmasters in the contest, now goes on to compete in the district finals next month.

EVERYBODY C'MON OUT

Santa Maria Barbecue This Weekend

Gather up the kids and neighbors and head for the Santa Maria barbecue in Missile Park this Friday and Saturday, September 26-27. The overnight camping area (tents, RVs, whatever) opens Friday at 4 p.m. To stay one or both nights, reserve with Truett Shipley (KM 2295).

Games start at noon on Saturday. The barbecued top sirloin dinner will be served starting at 3 p.m. Two round-trip PSA tickets to San Francisco are among prizes in the drawing starting at 5 p.m. Western and square dancing will be from 7 to 11 p.m.

Tickets are the same price as last year: \$4.75 for adults and \$2.25 for children 12 and under. Get tickets from CMA member reps, Maynard Bjorstrom (KM 2638), Ben Wier (KM 2265), Lou Lau (LF 8197), Wally Dawson (LF 8061), or Dick Clavert (87-3697). The event is being sponsored by Launch Vehicle Programs.

Square Dance Class Starts Tomorrow

The General Dynamics Square Dance Club, Dynamic Eights, is offering a beginners square dance class that starts on Tuesday, September 23. Registration will remain open for the first three weeks. Classes will be held in the CRA clubhouse from 8:15 to 10:15 p.m. every Tuesday evening. Dale Durbin will be the instructor/caller.

The class is designed for people who have never square danced or have been away from it awhile. All General Dynamics employees, families, and their friends are invited. Singles are welcome. A \$1 donation per session is asked.

For additional information, call the CRA clubhouse (KM 1111) or Ed Brady (LF 8159).

Speechcraft Course Starts September 25

A special eight-week Speechcraft program to improve communication and public speaking skills begins Thursday, September 25. The course, sponsored by Dynamic Toastmasters 457, is from 5 to 7 p.m. in the CRA clubhouse, room C. Course fee is \$4. To enroll, call John Rule (KM 3955) or Teri Norris (KM 1055).

Lindbergh Field Toastmasters Meets Tomorrow

Newcomers are invited to attend the weekly meetings of the Lindbergh Field Toastmasters, which are held on Tuesdays from 5 to 7 p.m. in the third-floor conference room of building 5, near the lobby. For more information, call Jim Johnston at KM 8166.

The 'Wonders of Wheat' Is This Week's Movie

The noon movie this week looks at the importance of wheat in early history, then shifts to bread making and other ways wheat is used today.

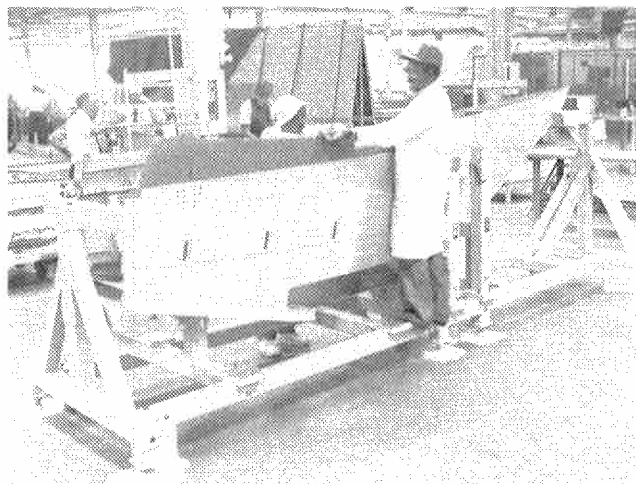
At Kearny Mesa, showings will be on Wednesday in classroom 3 of building 17 at 11:00 a.m. and noon. At Lindbergh, showings will be on Thursday in the building 5 auditorium at 11:00 a.m., noon, and 7:30 p.m.

Employment

For the week ending September 14, employment was 8,426.

CONVAIR Weekly Log *September 29, 1980*

Published by the Convair Division of General Dynamics



Final cleanup and inspection of our first strut aft fairing assembly were made by Jean Alexander of Quality Assurance (Dept. 300) and Henry Morrow of Boeing Final Assembly (Dept. 067) before the assembly was delivered.

First 767 Strut Aft Fairing Delivered

The first aft fairing assembly for a Boeing 767 strut was delivered last week. The fairing, weighing only 185 pounds, is constructed of lightweight Kevlar advanced-composite material and metal-bond honeycomb materials. This structure will be joined to our third test strut, delivered in early August, and used for engine ground testing.

Do Homework Before Election Day — and Register

Don't wait until the last minute to examine the candidates and issues of the 1980 election. Prepare now to fulfill your political responsibility by studying the campaign and registering to vote. If you would like information on the candidates and issues, contact our Legislative Office at KM 2966.

This year, when 52 American citizens are denied their rights and freedom in Iran, it is especially meaningful to exercise your right to vote. Don't let the other guy do it — register and then cast your ballot.

7 a.m.-3:40 p.m. Bus Pool to LF Expands

Several seats are available in the bus pool that runs from El Cajon to Lindbergh Field and Plant 19 now that a new, larger, and more comfortable bus has been added. The bus leaves the El Cajon K-Mart store at 6:15 a.m. and stops at LF gates 1 and 2 and Plant 19 gate 23, delivering all passengers before 7 a.m. The return trip starts from LF at 3:40 p.m., stops at Plant 19, and arrives in El Cajon around 4:10 p.m.

New routes from El Cajon to Kearny Mesa and from Mira Mesa to Lindbergh Field and Plant 19 are planned. The cost depends on the number of passengers, but with the savings in gas money, less private vehicle mileage, and no traffic problems, bus-pool passengers come out way ahead. To sign up or for more information, call Bruce Smith at 579-5236.

7:30 a.m.-4:15 p.m. Van Pool to KM Seeks Riders

Riders are needed for a van pool serving the 7:30 a.m. to 4:15 p.m. shift. The van pool picks up and drops passengers in El Cajon at East Main and Madison, Parkway Plaza, and Grossmont Center. Estimated cost is about \$2.00 per day. Call Carl Wannamaker at KM 3838 for information and reservations.

Speed Reading Course Starts October 8

A speed reading course open to all employees begins October 8 at Lindbergh Field. The three sessions in the Convair Management Association-sponsored course will be held from 4:15 to 6:15 p.m. on consecutive Wednesdays. There is a \$6 tuition fee, one-half of which will be refunded to CMA members when they complete the course. Enrollment is limited to 35 people. Call Marie at LF 8525.



Here's Chris with his rockets and the awards they won.

Convair Rocketeer Scores Double Win in World Meet

Chris Flanigan, a senior dynamics engineer in Structural Dynamics, earned two first-place wins in the 1980 World Space Modeling Championships held earlier this month in Lakehurst, New Jersey. The international competition is sponsored by the National Association of Rocketry of the United States and sanctioned by the Paris-based Federation Aeronautique Internationale.

He was a member of the twelve-man U.S. team, which came in first among teams from eight nations. Chris won the scale-altitude event with the rocket shown above on the left. Entries in this event are judged for the accuracy of the model and the altitude it attains. Flanigan's reached 610 meters. His model was of the Thiokol rocket called the D-Region Tomahawk (that's right). It's a sounding rocket for penetrating the D region of the atmosphere. "This was a good one to build," Chris says. "It's well documented in terms of what a model builder needs to know."

He was also first in the single-payload event, with a flight that reached 516 meters. Contestants build their rockets from their own designs, but all entries must use the same-size solid-propellant engine and carry the same

FLIP

payload (a one-ounce weight). That's the rocket on the right, above, against the ribbon.

Held every two years, the world championships last took place in Bulgaria, in 1978. Chris was a winner there, too.

MEMBERS SOUGHT

Join a Team for 10 km Run October 26

Employee teams from General Dynamics and other San Diego businesses will compete in the "Swiftest Business in San Diego" 10-kilometer run Sunday, October 26, at 8 a.m. If you're not on a team but want to be, just leave your name with Marc or Sheryl at the Health-Fitness Center (KM 1111). Or get together a team of your own.

The 6.2-mile course begins near the CRA clubhouse and encircles the Kearny Mesa plant. The entry fee is \$8 per runner, or \$35 per five-person team. Entry forms, available at CRA, Employee Benefits, and athletic shoe stores, must be received by October 23.

Awards include commemorative mugs to each runner, trophies for teams and individuals, and "Swiftest Business" pewter mugs to first-place teams in each category.

Turning On at Right Time Cuts Convair's Bill

Help cut Convair's electricity expense by scheduling consumption during the lower demand hours set for the winter season, which begins on October 1. Electricity costs 10 percent less from 10 to 11 p.m. than during the peak-demand period, from 6 to 10 p.m. The cost is 6 percent less from 11 a.m. to 6 p.m. Use the juice during the less expensive periods whenever you can and keep nonessential loads turned off.

DC-10 Fuselage Delivered

We delivered DC-10 fuselage 357 to McDonnell Douglas last Tuesday, on schedule.

Tour Local Sony Plant on October 15

See the world of Sony in Rancho Bernardo during the Convair Management Association-sponsored tour on Wednesday, October 15, at 5:30 p.m. You provide your own transportation to Sony. Participation is limited to the first 40 who sign up. Call Rob Evanson at KM 1243 or Betty Ford at LF 8518.

Weekend in Palm Springs November 7-9

The bus will leave the CRA clubhouse on Friday, November 7, at 4 p.m. for the weekend excursion to Palm Springs. Enjoy a hospitality bar when you arrive. Saturday activities include downtown shopping, tram

ride to high up on Mount San Jacinto, and plenty of time to enjoy restaurant row. Depart for San Diego on Sunday at 4 p.m.

The price of \$165 per couple includes round-trip transportation, the tram ride, and accommodations. Make reservations with Bill Kramer (KM 2855) before the October 10 deadline. The trip is being sponsored by the Convair Management Association.

Las Vegas High Rollers Weekend November 21-23

Plan now to join the CMA-sponsored Las Vegas High Rollers weekend November 21 through 23. First-class accommodations will be at the Maxim Hotel and Casino. Included will be round-trip, air-conditioned coach bus transportation, with refreshments and prizes en route. The cost is \$185 per couple. All reservations and money are due by October 10. Call Judy at LF 8247 to reserve a space.

Get 'Back in Action' Starting October 13

Learn techniques for low back pain prevention and relief in "Back in Action," the nonvigorous exercise class offered by the CRA Health-Fitness Center. The workshop includes techniques for relaxation, flexibility, and muscle strengthening. The five-week course meets from 5 to 6 p.m. on Tuesdays and Thursdays, October 14 to November 13. The fee is \$25. To register, call instructor Liz Hogan at KM 1111.

Shapeup Exercise Class Begins October 13

The last shapeup class of the year begins on Monday, October 13. It meets Mondays, Wednesdays, and Fridays for six weeks, from 4:30 to 5:45 p.m. in the CRA auditorium. The class includes two complete fitness profiles. The fee is \$30. Sign up early while there's room. Call Marc, Sheryl, or Liz at KM 1111.

Tourist's View of Reno, Lake Tahoe in Noon Movie

Reno is booming and the wilderness on Lake Tahoe's south shore is giving way to neon lights and traffic jams as the tourists pour in. Narrator Peter Lawford takes you through the whole thing.

At Kearny Mesa, showings will be on Wednesday in classroom 3 of building 17 at 11:00 a.m. and noon. At Lindbergh, showings will be on Thursday in the building 5 auditorium at 11:00 a.m., noon, and 7:30 p.m.

Employment

For the week ending September 21, employment was 8,407

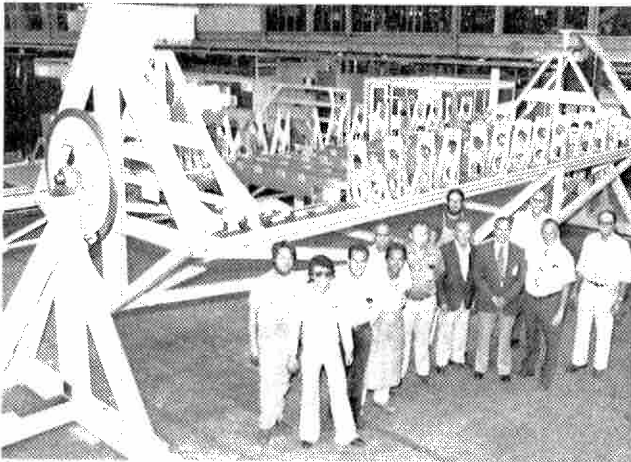
That's Productivity

An old-time plumber was concerned about coffeebreaks, featherbedding, and other interruptions to production. "When I was an apprentice, we used to lay the first two lengths of pipe — then the boss would turn on the water and we'd have to stay ahead of it."

CONVAIR Weekly Log

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Super-Rig to Ease Assembly of GLCM Launcher

The trunnion-mounted fixture above will enable production people to assemble the transporter-erector-launcher (TEL) for the ground-launched cruise missile much more quickly and with greater ease than would be possible with a static fixture. The new device will rotate the TEL being assembled 360 degrees, giving individuals easy access to their work areas as production proceeds.

The gang in the photo is proud that the big fixture was produced on time and under budget. Woody Smith was project engineer. Frank Campbell supervised the job for the Manufacturing Engineering Department.

Election 80:

Registration a Success • Making Contributions

The Registrar of Voters reports that more than 430 Convair employees registered to vote before the deadline last Monday as a result of the company's registration drive.

Anyone who has moved or will be out of the area on election day may obtain absentee ballot request forms from the Government Relations office at Kearny Mesa (KM 2966) or from the Employee Benefits office at Lindbergh Field (LF 8001).

To make a contribution to any candidate, send a check to the Government Relations office (MZ 12-1008). The office can also provide you with information about the candidates and issues.

If you are not satisfied with the way things are, don't let only the other guy do it — cast your vote where you feel it will be most effective.

Terry Cole-Whittaker at CMA Dinner October 22

Nonmembers as well as members of the Convair Management Association are invited to hear the dynamic Terry Cole-Whittaker at the CMA dinner meeting Wednesday evening, October 22, at the Airport Sheraton Inn. Since her last appearance before the CMA, she has gained fame and huge audiences as minister of the La Jolla Church of Religious Science and as the star of her own weekly TV show.

Tickets are \$10.00 for nonmembers and \$8.00 for members. All CMA boosters have them.

Bring Your Magazines to Art & Editorial

The Art & Editorial Department at Kearny Mesa is setting up an extensive file of illustrations as reference material for preparing art used in booklets, proposals, exhibits, and viewgraphs. Magazines are a prime source of such material. A&E will welcome any magazines you can spare — general interest, trade, technical, whatever. They can also use such other material as illustrated brochures, catalogs, and flyers.

Bring your contributions to the front counter in Art & Editorial (KM 2225), column B4, first floor of building 3. They thank you.

DC-10 Series 30 Fuselage Delivered

DC-10 fuselage 359, for a series 30 aircraft, was delivered to McDonnell Douglas last Thursday, on schedule.



Members tour the center with director Marc Michaelson (right).

Japanese Group Visits Health-Fitness Center

Ten sports and fitness professionals representing Japanese corporations, schools, and recreation associations visited the Health-Fitness Center at CRA last week during their one-week tour of private U.S. organizations that promote better health. The group learned of HFC through a publication from the President's Council on Fitness.

"In modern industrialized nations such as ours," said spokesperson Masaru Ikeda through an interpreter, "employee fitness programs are becoming more essential for both the company and individual. Here, we have been impressed by the number and variety of programs your company offers to meet each person's needs, not only in the field of physical fitness but in such areas as nutrition, mental health, and family life."

FLIP

Still Time to Sign for Blood Drive Next Week

Our Lend an Arm campaign has room for more donors. They're needed because it's important that our reserve account in the San Diego Blood Bank be kept at the highest possible level, so that it can continue to provide no-charge replacement service for Convair employees.

So lend an arm. You'll get it back — with a free, stenciled T-shirt attached. Call KM 1309 to make an appointment. Here's the schedule: October 20 and 21 at Kearny Mesa, October 22 and 23 at Lindbergh Field, and October 24 at Plant 19.

Scholarship Tests for High Schoolers This Month

A reminder for employees who have children in high school: The Preliminary Scholastic Aptitude Test/National Merit Scholarship Qualifying Test will be administered for all juniors at local high schools October 21 and 25. High school juniors should contact their principal or counselor for information related to taking the test.

Musicians Wanted for 'Baroque' Band

The General Dynamics Performing Arts Company needs brass: If you play trumpet, cornet, French horn, or tuba, you're invited to join the troupe's "Baroque" band. (They also need a drummer.) Employees, dependents, and friends are welcome. For further information, call Jake Jacobsen at KM 1850.

CPR Course Meets October 16, 23 at Kearny

A cardiopulmonary resuscitation course consisting of two sessions (not one, as stated last week) will meet on Thursdays, October 16 and 23, from 6 to 9 p.m., in the Kearny Mesa cafeteria. Industrial firefighter Joe Harrison will be the instructor.

The course is free and refreshments will be served. For parking convenience, the gate just west of the cafeteria will be open. Enrollment is limited to 35 per class. Call Marilyn Dehner at KM 3300. The course is being jointly sponsored by the Convair Management Association and the San Diego County Heart Association.

Free Running and Exercise Forums October 16, 23

Dr. Mitchell Feingold, specialist in sports medicine, will moderate two evening forums designed to help anyone interested in a well balanced exercise program for improving total health. The free meetings will be presented from 7 to 9 p.m. in the CRA clubhouse. They are being sponsored by the Paradise Valley Hospital.

Everyone is invited, and the meetings are especially recommended to runners taking part in the "Swiftest Business in San Diego" 10 km race on October 26. The topic on October 16 will be "Effects of Exercise on the Body and the Body's Ability to Adapt." On October 23, the topic will be "Avoiding Those Common Injuries — and Those Running Blues." Bring your questions. For more information, call Marc Michaelson at KM 1111.

\$149 Off Hertz Late-Model Used Cars

Hertz is offering General Dynamics employees \$149 off the regular price of any Hertz late-model used car through December 31. The selection includes General Motors, Ford, and Toyota cars.

The offer is good at all Hertz lots in town: 1356 Sixth Avenue, the airport, and 1020 Prospect in La Jolla.

Calendar of Events at Convair

Shapeup Class. Starts today. Mondays, Wednesdays, Fridays, 4:30 to 5:45 p.m. Health-Fitness Center. Six weeks, \$30. Sheryl Marks, KM 1111.

Scuba Divers Meeting. Delta Divers, CRA clubhouse, tomorrow at 4:30 p.m. All scuba divers invited. Larry Fromwiller, KM 6302.

Back in Action. Starts tomorrow. Tuesdays and Thursdays, 5 to 6 p.m., CRA auditorium. Five weeks, \$25. Sheryl Marks, KM 1111.

Day at Caliente Races. Saturday, October 25. Round-trip bus, reserved seat in clubhouse, buffet, \$19. CRA Travel, KM 1111.

'Swift Biz' Team Run. Get on a team for "Swiftest Business in San Diego" 10 km run on Sunday, October 26. Starts and ends at CRA clubhouse. Call KM 1111 and leave your name or organize a five-person team of your own.

Palm Springs Weekend. November 7-9. \$165 per couple includes transportation, accommodations, aerial tram ride. Bill Kramer, KM 2855. The sponsor is the Convair Management Association.

Is Your Address Correct? Look at Paycheck

Employee Benefits will soon be mailing material to employees' homes, so now is a good time to make sure your address is correct. Take a look at your paycheck this week; the address there is the one that appears in all company records. If it's not correct, use a pink change-of-address card available at time clocks and in KM and LF Employee Benefits offices. Incorrect addresses cause unnecessary delays, additional postage charges, and might cause you to miss receiving important information.

See Clippers-Lakers Game October 28 at Half Price

The CRA clubhouse (KM 1111) has \$7.00 tickets for \$3.50 to the Clippers-Lakers basketball game at 7:05 p.m. on Tuesday, October 28.

Order Knott's Berry Farm Holiday Gifts from CRA

Catalogs of Knott's Berry Farm gift items and order forms are available at the CRA clubhouse and at the CRA sales office at Lindbergh Field, in building 16. All gifts will be shipped from Knott's with your personal greeting to each recipient. The ordering deadline for Christmas delivery is November 15. For details, call the CRA at KM 1111.

Noon Movie Looks at Copper Mountain Skiing

With the season almost here, "Place Called Copper Mountain" may spur you on to get out the skis and maps of the Colorado Rockies. You get a good look at the skiing and the entertainment in this winter resort near Vail.

At Kearny Mesa, showings will be on Wednesday in classroom 3 of building 17 at 1:00 a.m. and noon. At Lindbergh, showings will be on Thursday in the building 5 auditorium at 11:00 a.m., noon, and 7:30 p.m.

Employment

For the week ending October 5, employment was 8,379.

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Make Stock Investment Plan Changes in November

During November 1980, eligible savings and stock investment plan members whose financial planning requires it may withdraw their 1977 plan year accounts. Members with accounts for 1976 and prior years may also elect to withdraw funds.

The savings and stock investment plan annual election material will be mailed to your home address on November 1. Indicate on the election cards included whether you want to withdraw your eligible plan year accounts. A self-addressed, prepaid envelope will be provided to return your card. It must be postmarked on or before November 30. *Please check your address on payroll checks; be sure to make corrections if your address is not correct.*

November is also the signup period for employees wishing to change investment option, investment percentage, or to enroll if employed at least one year. Changes or new enrollments become effective the first full pay period in January 1981.

Savings Bonds Interest Rates Increased

The interest rate on Series EE bonds purchased on and after November 1, 1980, has been increased from 7 percent to 8 percent, compounded semiannually, when the bonds are held to original maturity. The term to maturity has been shortened from 11 to 9 years.

All outstanding Series E and EE bonds will also benefit from a 1 percent increase to their next maturities. The redemption value of E and EE bonds during periods before their maturity will be improved. In general, this increase will be effective with the first semiannual interest period that begins on or after November 1, 1980.

Continuing benefits of Series EE bonds include their exemption from state and local income taxes, the option to defer federal income taxes on accrued interest, the low minimum purchase price of \$25, and the right to redeem the bonds any time after six months at issue price plus accrued interest.

New Vending Machines to Be Fine-Tuned

Next week, factory representatives will be adjusting and fine-tuning all the new vending machines recently installed throughout our facilities. During the next 90 days, several of the vending areas will be made more attractive, and other improvements are planned in the coming months.

Remember that these machines support your recreational programs. Any malfunctions should be promptly reported to the CRA at KM 1122.

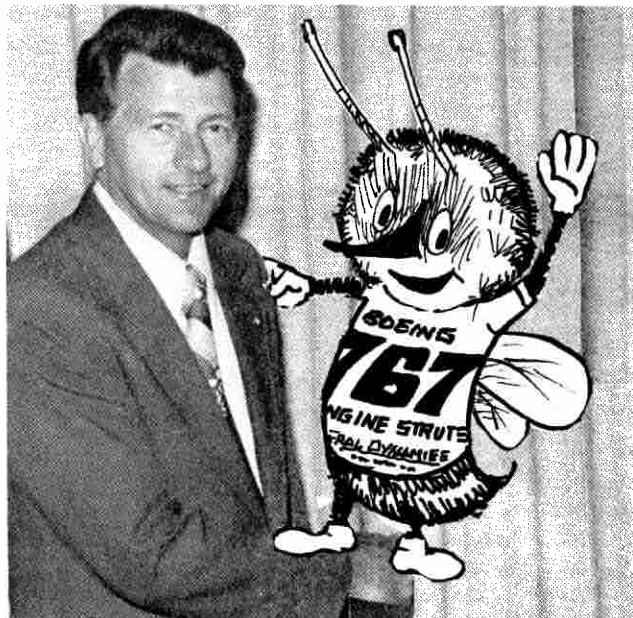
Vision Program Prices Lower Than Announced

If you have picked up a brochure about our new Vision Program, you should be aware that the prices shown are incorrect — they're on the high side. New price lists showing the correct, lower prices will be available in Employee Benefits in a few days. In the meantime, you

can get proper price quotations by calling the hotline number, 560-5398.

Union-Tribune Tour on November 5

Ever wonder how your local newspaper is produced? Come find out during a Convair Management Association-sponsored tour to the Union-Tribune Publishing Company in Mission Valley on Wednesday, November 5, at 5:30 p.m. Participation is limited to the first 35 who sign up. Call Rob Evanson at KM 1243 or Betty Ford at LF 8518 for reservations.



Jess Cook with new 767 mascot.

Buz Joins Boeing 767 Engine Strut Team

The Boeing 767 Engine Strut Program is welcoming a newcomer this week — Buzby B. Bee or Buz for short. A letter of introduction is being distributed this week to all Convair employees associated with the manufacture of the engine struts.

Buz will soon be seen on the 767 production line in building 4 at Lindbergh Field plant and in all other areas where strut parts are being produced. Posters featuring Buz will offer advice to help ensure a high-quality, error-free production flow.

Election '80

- Who is running for president of the United States? Here are a few of the nearly 200 candidates who have filed with the Federal Election Commission:

Ed Clark — Libertarian
 Barry Commoner — Citizens Party
 Deidre Griswold — Workers World Party
 Gus Hall — Communist Party
 David McReynolds — Socialist Party U.S.A.
 Andrew Pulley — Socialist Workers Party

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- Of 160.5 million Americans age 18 or older, about 76 million are not expected to vote for anybody on election day.
- Your vote is important because it will help determine the true preference of the majority. It earns you the right to complain if an elected candidate fails to keep promises. It makes a difference in an election year in which the polls predict a very close race. Recent polls indicate that a third of the voters are undecided, another third have a tentative choice but could easily switch, and about one third won't vote.
- For absentee ballot applications or help in making contributions to any candidate, call the Government Relations Office (KM 2966).

Matching Gifts Campaign to Benefit SDSU Labs

A special matching gifts campaign to support the Engineering Systems and Applied Electronics Laboratories at San Diego State University is under way. The campaign is being conducted under the corporate Matching Gifts Program.

Alumni Dick Huntington and Bernie Kuchta are heading up the effort to remind all SDSU graduates working at Convair of the urgent need for additional money to keep those laboratories at their highest level of effectiveness for the hands-on training today's students need.

The General Dynamics Matching Gifts Program is available to all full-time employees who wish to contribute money to eligible schools and have the corporation match the gift amount up to \$2,000 per calendar year.

To obtain specifics about this outstanding program, get a form at Educational Services — at Lindbergh in building 1 and at Kearny in building 17 or building 1 (first floor, northeast corner).

On the CRA Calendar

Ski Fitness Classes, November 4 Start. Classes meet Tuesdays and Thursdays, November 4 through December 6, in the Health-Fitness Center. \$30 for the six weeks. Call KM 1111.

HFC Fun Run and Potluck Dinner, November 5. Run 1, 3, or 5 miles at 5 p.m. start. Dinner follows. Lots of door prizes. Call Liz at KM 1111.

Ice Capades, November 8-9. The CRA (KM 1111) has \$8 tickets for \$6.50 and \$7 tickets for \$5.50. At the Sports Arena.

Ensenada Trip, November 15. Leave CRA clubhouse at 8 a.m., return about 7:30 p.m. Lunch, cocktail, and Rosarito Beach included. \$23 per person. Call KM 1111.

Pro Boxing, November 28. Get tickets through the CRA from Jim Pate (KM 1940). \$30 tickets for \$22.50 and \$20 tickets for \$15, and \$15 and \$10 tickets at regular prices.

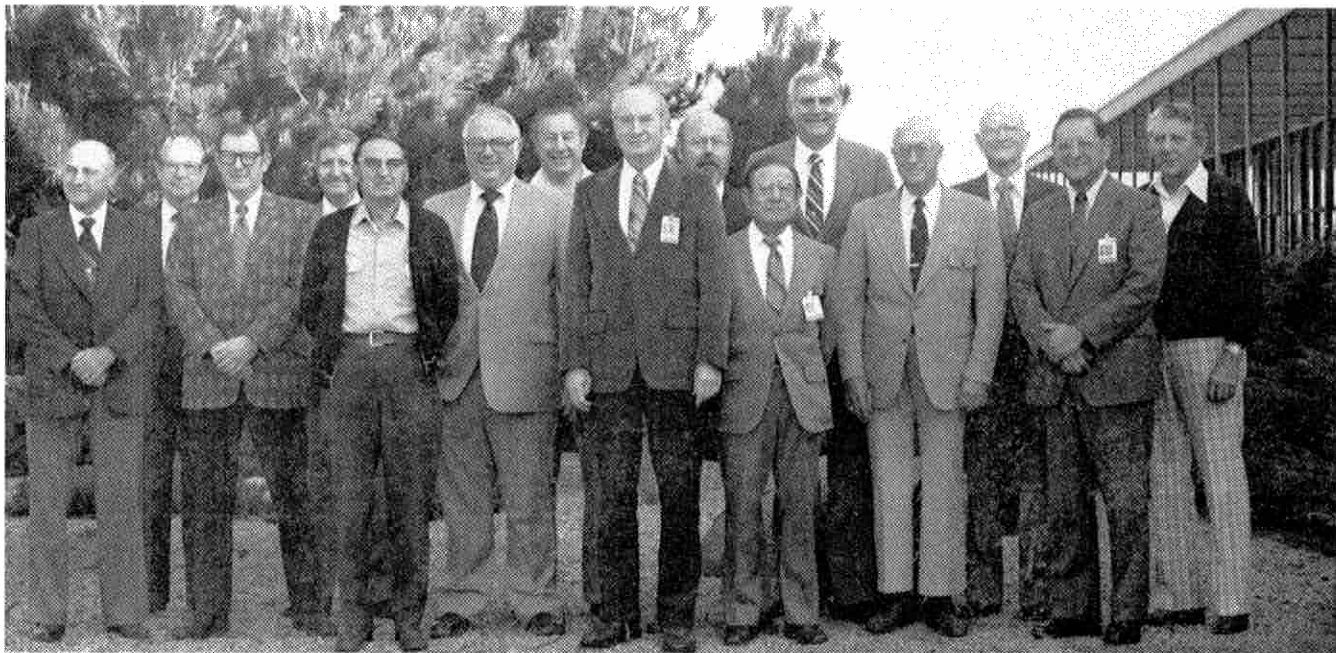
Building Materials Get a Boost in Noon Movie

"From the Source" gets down to the nitty-gritty about one of Southern California's most basic industries — sand and gravel production. You see how the stuff was formed and is now mined, trucked to construction sites, then shaped into buildings, freeways, and the like.

At Kearny Mesa, showings will be on Wednesday in classroom 3 of building 17 at 11:00 a.m. and noon. At Lindbergh, showings will be on Thursday in the building 5 auditorium at 11:00 a.m., noon, and 7:30 p.m.

Employment

For the week ending October 19, employment was 8,397.



They've Now Been Here 40 or More Years

Ten employees with 40 years of service and one with 45 as of this month were honored recently at a service awards breakfast in the Kearny Mesa cafeteria. Dr. Buchanan was the host. Their supervisors also attended.

Those honored were: John S. Bergstrom, Lawrence Denoyer, Orvil Hamman, Harry D. Heyenga, Robert D. Johnson, Milton C. Nesbit (he's the 45-year veteran), Phillip Pacheco, Robert L. Robinson, Robert Shorey, Melvin I. Smith, and John H. Weiland, Jr.

CONVAIR Weekly Log

November 3, 1980

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MRASM Aboard Navy Aircraft in Catapult Launch

A Navy attack aircraft carrying a Tomahawk II (medium-range air-to-surface missile) on October 30 was catapulted from the USS *Kitty Hawk* while under way off the California coast.

The demonstration was the first in a series of flight tests to verify that the aircraft/MRASM combination is able to withstand the stresses of catapult launchings.

After launch, the MRASM — attached to a wing pylon of an A-6 Intruder aircraft — aligned its guidance system and navigated the aircraft on a simulated mission to the Naval Weapons Center, China Lake, Calif., using the terrain-contour matching (TERCOM) update process.

The MRASM used in the test will be sent to the Naval Air Test Center, Patuxent River, Md., for an extensive series of catapult and arrestment tests on another A-6.

Earlier this year, the Department of Defense announced that the MRASM program will use the basic Tomahawk cruise missile design to meet the joint Navy/Air Force requirement for a medium-range air-to-surface weapon system. This Tomahawk II MRASM will provide Navy and Air Force tactical air forces with a standoff capability to attack high-value, heavily defended targets with nonnuclear payloads. Present plans call for the MRASM to be carried by the Navy's A-6E attack aircraft and the Air Force's F-16 and B-52D aircraft.

Atlas/Centaur 57 Launches FLTSATCOM Satellite

Atlas/Centaur 57 launched the fourth of five scheduled Fleet Satellite Communications (FLTSATCOM) satellites from the Eastern Test Range in Florida on October 30 at 7:53 p.m. our time.

FLTSATCOM satellites are the spaceborne portion of a worldwide Navy, Air Force, and Department of Defense communications system that enables communications between naval aircraft, ships, submarines, ground stations, the Strategic Air Command, and the Presidential Command Network. Each satellite is deployed in a geostationary orbit, from where it provides line-of-sight earth coverage in ultra-high-frequency and super-high-frequency bands.



Congressman Clair W. Burgener (R-Cal.), a candidate for reelection in the 43rd District, visited Convair on October 30 to receive an Energy Systems overview from Dr. Ray Beuligmann, program director of Energy Systems. Congressman Burgener, a key member of the Appropriations Subcommittee on Energy and Water Development, was pleased to learn of our efforts in the area of magnets and specifically our work with TRW on advanced isotope separations. Burgener stated that he is a strong supporter of Convair and hopes that our work in the area of energy will bring more jobs to San Diego and the people of the 43rd District.

Tomorrow Is the Day

Are you willing to let someone else do your voting for you? Consider the importance of areas like these in your own life:

Taxes — up or down?

Defense — stronger or status quo?

Salt II?

The economy?

Don't let someone else do it. Vote tomorrow on your own behalf. Freedom is too precious to be lost through indifference or neglect. Our government is elected to serve. We should elect people who share our views on the issues. That requires each of us to vote. November 4 is the day for you to vote in favor of those you believe will represent you best.



Art & Editorial Proposals Supervisor Joe Moore (left) and Proposal Leader Carl Peters get together with Graphics Supervisor Lance Elmstrom (right) to check out the completed books. Thirty-five sets like this one, each of 31 separate documents, were delivered to the customer.

ASW Standoff Weapon Proposal Submitted

The proposal for our Subhawk antisubmarine warfare standoff weapon was delivered to the Navy last Friday, on schedule. We are submitting the proposal initially to win a demonstration and validation contract, under which we will prove the viability of our weapon concept. Ken Christie is the Subhawk program director.

The demonstration and validation phase will include three to four years of competitive flyoff, followed by several years of full-scale development and then production. The system selected will become the Navy's primary antisubmarine warfare weapon. The Subhawk can be launched from submarines and surface ships.

"Preparing a proposal of this size is a tremendous task," said Carl Peters, "and credit for the job goes to all the people who worked so many long hours to make it happen. My congratulations and sincere thanks go to each of them."

Printout Forms for SSIP Changes Sent to Homes

During November, all members of the corporate savings and stock investment plan will receive, at home, computer printout material to be used in changing their SSIP status. Be sure to use the self-addressed envelope included to return your reply by November 30.

Convair needs instructors for a basic shorthand course and a refresher lab during the spring semester as part of in-plant, after-hours courses presented through the Community Colleges. If you are interested in this teach-for-pay position for one or both of these courses, call Caroline Miller, Educational Services, at KM 2255.

Thanks Extended to All Who Lent an Arm

A total of 667 employees, donating 579 pints of blood, supported the recent Lend an Arm blood drive. The company and the San Diego Blood Bank extend thanks to all participants.

Remember that employees and eligible dependents may receive credit from the Convair blood reserve fund for blood transfusions that are made in San Diego County. Submit blood bank billings to Employee Benefits for credit. You need not be a donor to receive this benefit.

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LF Building 5 Machine Shop 'Eye Hazardous'

The entire Machine Shop in building 5 at Lindbergh Field has been designated "eye hazardous." Personnel entrances have been marked accordingly. Employees working or walking in this area are required to wear approved eye protection. Approved safety glasses have the manufacturer's logo imprinted on each lens, for example, AO, BL, or WP.

Contact your supervisor and/or the Safety Office (KM 1477 and LF 8186) if you have questions.

DC-10 Fuselage for Aeromexico Delivered

We delivered DC-10 fuselage 361 to McDonnell Douglas last Friday, on schedule. It will be used for a third Aeromexico DC-10.

Arizona State Homecoming at Hanalei November 7

All Arizona State University alumni at Convair who can't make it back to Tempe are invited to attend the get-together at the Hanalei Hotel on Friday, November 7. Festivities start at 5 p.m. and last as long as you do. Check out the details with Ava at KM 3481 or Steve at LF 5518.

Stay Off the Juice from Five to Nine

Now that we're back on standard time, 5 to 9 p.m. is the on-peak period, when electricity costs the most — 10 percent more than power consumed during off peak (9 p.m. to 10 a.m.). During semipeak hours (10 a.m. to 5 p.m.), power is still 6 percent cheaper than the on-peak stuff.

You know the answer: schedule loads away from peak times whenever you can. Turn off lights and equipment whenever they're not being used and at shift end.



The Swiftest Business men in San Diego: members of the San Diego Police Dept. team receive the winners' trophy from Lee Grissom (left), executive secretary of the San Diego Chamber of Commerce.

Convair Teams Among Winners in 'Swift Biz' Race

Overall division winners in the first annual Swiftest Business in San Diego 10 km Run on October 26 were the San Diego Police Dept. and the Team Etonics. More than 120 teams, including 20 from General Dynamics, turned out for the event. Sponsored by the General Dynamics Health-Fitness Center, the race started and finished on Missile Road.

Two General Dynamics teams placed in the Business Employees Division. The team called Flight Test, in the 90-119 combined age category, came in second. The members were Chris Yates, Mike Miller, Bill Wallace,

and Myron Hill. Winning fifth place in the same age category was the GD Avionics team, which had three members: Jim Gilles, Luis Ojeda, and Derek Someda.

Richards Talks Her Way to a Win in Area Finals

Janet Richards last week won the Toastmasters area finals in the humorous speech category. She is a member of the Lindbergh Field Toastmasters. The title of her talk was "Topic Search." Toastmistress Richards now goes on to compete in the humorous speech district runoff, which will be held on November 8 in the Airport Sheraton Hotel on Harbor Island.

Dr. Michael Dean at CMA Dinner Meeting Nov. 19

Nonmembers, as well as members of the Convair Management Association, are invited to hear Dr. Michael Dean, who will give a talk and then demonstrate hypnosis at the CMA dinner meeting Wednesday evening, November 19, at the Kona Kai Club, on Shelter Island. Tickets are \$8 for members and \$10 for nonmembers. Get ticket information from Barbara Freeman at KM 2826.

Earn Fitness Achievement Award from HFC

Get the recognition you've earned for playing all those sets of tennis or running all those miles. You can earn the Achievement Award from the Health-Fitness Center by qualifying in any of twenty activities, including tennis, golf, jogging, racquetball, bicycling, and skiing. The basic qualification is thirty hours of participation within four months. All employees and family members are eligible. The HFC (KM 1111) has details and application forms.

See 'Best Little Whorehouse in Texas' Dec. 12

Tickets to the Fox Theatre production of the comedy "Best Little Whorehouse in Texas," starring Alexis Smith, are available for the evening of December 12 at \$16.50 each. Call KM 8247 and make reservations before November 24. The ticket sale is being sponsored by the Convair Management Association.

On the CRA Calendar

Ski Fitness Course Starts Tomorrow. Classes meet Tuesdays and Thursdays, November 4 through December 4, in the Health-Fitness Center. Register at any class. \$30 for six weeks. Call KM 1111.

Convair Stamp Club Meets Thursday. CRA clubhouse, 7:30 p.m. All stamp collectors invited. 1915-16 San Diego Expo slide show, trading, auction. Mel Bachelder, KM 3838.

Delta Divers Club Meets November 11. All scuba divers welcome. CRA clubhouse, room B, 4:30 p.m. Bob Nicholas, KM 3616.

Testing Chemicals for Safety Is Noon Movie Topic

Dow Chemical produced this one. The title is "Bill Smith's New Chemical." The story line: how the science of toxicology is applied to testing a new chemical's effects on living organisms, to make sure it is safe before it is marketed.

At Kearny Mesa, showings will be on Wednesday in classroom 3 of building 17 at 11:00 a.m. and noon. At Lindbergh, showings will be on Thursday in the building 5 auditorium at 11:00 a.m., noon, and 7:30 p.m.

Employment

For the week ending October 26, employment was 8,394.

CONVAIR Weekly Log

November 10, 1980

Published by the Convair Division of General Dynamics

Milestone MRASM Review Completed

The second Medium-Range Air-to-Surface System Configuration Definition Review was completed here last week. Representatives from the Joint Cruise Missiles Project Office evaluated the progress we have demonstrated in the MRASM program during the past four months.

As our Definition Phase bridge contract terminates, we will begin the transition to full-scale engineering. Our production is planned to meet an initial operating capability for the Navy in 1984 and the Air Force in 1985.

Stock Investment Plan Values for September

Here are the unit values in dollars for the corporate savings and stock investment plan as of September 30, 1980.

Salaried	1978	1979	1980
Government bonds	\$ 2.0404	\$ 2.2214	\$ 2.4397
Diversified portfolio	1.3531	1.5843	1.9671
Fixed income		1.0235	1.1258
Hourly			
Government bonds	2.0394	2.2216	2.4374
Diversified portfolio	1.3836	1.6204	2.0068
GD Stock	\$32.9000*	\$44.7500	\$68.5000

*Reflects 2½ for 1 stock split

Convair Tech Papers Presented in November

Douglas Burleigh of Structures & Design Properties (633-2) will present his paper "Thermophysical Properties Data on Graphite/Polyimide Composite Materials" at the Composites for Extreme Environments Conference of the American Society for Testing & Materials. The conference is being held tomorrow in Bal Harbor, Florida.

Four papers will be presented by Convair engineers at the Radar Camouflage Symposium in Orlando, Florida, on November 18. Authors of the first three papers are in Signature Reduction (685-0).

- "Recent Developments in Radar-Absorbing Materials," presented by author Larry Carter.
- "Radar Cross-Section Methodology," presented by Gordon Taylor, coauthor with Jack Zickgraf.
- "Analysis and Evaluation of Surface-Wave Radar-Absorbing Materials," presented by Jack Zickgraf, coauthor with Dean Marshall.
- "Radar-Absorbing Primary Structures," presented by Ron Miller of Advanced Structures Analysis (681-0), coauthor with Bill Scheck of Structures & Design (640-0) and Gary Tremblay of Advanced Design (673-0).

Presupervisory Program Begins November 19

Another in the series of Presupervisory Training Programs will be offered at Kearny Mesa beginning Wednesday, November 19. The sessions will run from 4:30 to 6:30 p.m. each Wednesday for ten weeks (no sessions will be held on December 24 or 31).

SAFETY

SPOTLIGHT



"I told you the boss would flip if we didn't clean up the place!"

The few remaining spots not yet filled by people whose applications have been on file will be assigned first-come, first-served. Applications may be picked up from Ken Biccum (KM 2312) in building 1 at Kearny Mesa or Wayne Turner (LF 8564) in building 16 at Lindbergh Field.

Makeups for sessions missed from previous programs may be arranged through Biccum or Dorothy Graham (KM 2312).

How to Get Along with Computerized Lights at KM

All lights in buildings 1, 3, 4 (west side), and 26 at Kearny Mesa are now connected to a computerized energy management system. The computer turns these lights off at 5:30 p.m. to avoid the winter peak demand charge and save at least \$4,000 a month.

The computer checks again at 8:00 and 11:00 p.m. If you leave before 5:30 p.m., turn your lights off and save even more energy. If you have to work after 5:30 p.m., simply go to the lighting panel convenient to your area and turn your circuit back on.

Effective Writing Course Starts November 19

A six-hour, four-week course in effective writing begins on Wednesday, November 19, in the engineering auditorium at Lindbergh Field. Classes run from 4:30 to 6 p.m. The instructor is Doc Deane.

The course is open to all Convair employees. Attendance is limited to thirty. The fee is \$3 for members of the Convair Management Association, which is sponsoring the course, and \$6 for nonmembers. A refund of \$3 will be made when you complete the course. To register, call Jan at LF 8525.

FLIP

They Retired in October

Our thanks for their contributions to Convair and best wishes for their success in future activities go to each of these individuals who retired last month.

Name	Department	Years Served
Myles D. Castle	DC-10 Assembly Section	13
Jose C. Charfauros	Heat Treat	20
Harry E. Crabtree	Machine Shop, Vandenberg AFB	21
Ray E. Culver	Inspection Machine Parts	28
Joseph J. Gormley	Planning	5
Ada M. Johnston	Time Audit	22
Henry P. Kelly	Engineering Practice	24
Scott A. Shepler	Machine Shop	19
Elmer R. Sperl	Numerical Control	26

‘Cinderella’ in Champagne Opening This Friday

Rodgers and Hammerstein’s musical “Cinderella,” presented by the General Dynamics Performing Arts Company, will have a champagne opening this Friday, November 14, at 8 p.m. in the CRA Theater.

Performances will continue through November and the first week of December on Fridays and Saturdays at 8 p.m. and Sundays at 2 p.m. For more information and ticket reservations, call 566-7300, ext. 375, or 484-2252, ext. 375.

Thanks Extended to Blood Donors for Retirees

Our drive last month provided 224 pints of blood to the Convair Retiree Account at the San Diego Blood Bank. Glenn Bates, chairman of the Convair Alumni Association blood drive, said, “It’s difficult and often not possible for people 65 and older to be accepted as donors, so those who asked that their donations be put into the retirees’ account provided a vital gift that will benefit many who used to work at Convair. On behalf of all retirees, I thank each of you.” Helen Grant, supervisor of Medical Services at Convair, sponsored the special donating plan.

Tape of Terry Cole-Whittaker Sought

If you, or someone you know, tape-recorded the talk Terry Cole-Whittaker gave at the Convair Management Association meeting on October 22, please call Bob Montague, Motion Pictures & TV, at KM 1525.

Smokers: Join Group-Quit on November 20

Thursday, November 20, is the day of the Great American Smokeout, the annual group-quit program that offers extensive media attention and support to those who want to stop smoking. Since that seems to include about 90 percent of all smokers, why not make it

count and join the great smokeout sponsored by the American Cancer Society? Stop by Employee Benefits or CRA and receive the “Well Body Guide,” a pamphlet with tips about diet, exercise, stress reduction, etc. The guide is an immediate reward, but it is trivial compared to the real rewards of snuffing out the habit.

Delta Divers Club Meets Tomorrow Evening

If you’re a scuba diver, take the plunge and attend the meeting of the CRA Delta Divers Club in room B at the CRA clubhouse at 4:30 p.m. on November 11. You’ll find out about saving money on equipment and can help plan the club’s group dives.

CRA Trip to Rose Bowl Parade Cancelled

Because it would have to accept sharply higher costs and less convenient arrangements than in the past, CRA Travel regretfully is cancelling its annual trip to the Rose Bowl Parade next New Year’s Day. As an alternative, CRA Travel suggests that you check the travel section of your newspaper for information about package tours to the parade.

Lecture on Hypnosis at CRA November 18

Dr. Cerea, clinical psychologist, will talk on the subject “Hypnosis — Fact or Fantasy?” at the CRA clubhouse at 7 p.m. on Tuesday, November 18. Admission is free and all are welcome. Dr. Cerea will explain how hypnosis is used to help people stop smoking, control addiction, relieve anxiety, and improve concentration.

See ‘Best Whorehouse in Texas’ December 12

Tickets to the Fox Theatre production of the comedy “Best Little Whorehouse in Texas,” starring Alexis Smith, are available for the evening of December 12 at \$17.50 each. Call LF 8247 and make reservations before November 24. The ticket sale is being sponsored by the Convair Management Association.

Double Feature at Noon Movie This Week

Two shorter films make up this week’s program. The first skips narration as it shows men and machines of the General Dynamics Material Service working from dawn to dusk to pour the foundation of a building in Chicago. “Trees — The Endless Harvest” describes how modern methods are designed to ensure that we don’t run out of trees for forest products.

At Kearny Mesa, showings will be on Wednesday in classroom 3 of building 17 at 11:00 a.m. and noon. At Lindbergh, showings will be on Thursday in the building 5 auditorium at 11:00 a.m., noon, and 7:30 p.m.

Employment

For the week ending November 2, employment was 8,392.

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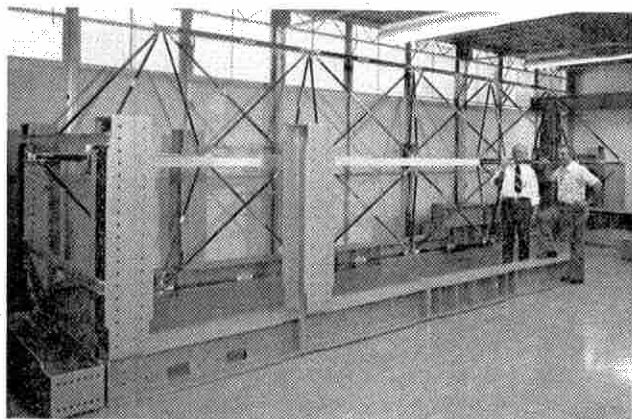
Convair-Designed Space Truss Forerunner of Satellite Components

Large space systems of the future took a step toward realization last week with the completion of a ten-month effort to construct a full-scale prototype space truss. Funded as a General Dynamics research and development effort, the deployable truss is a forerunner of structural elements to be used in construction of large space satellites.

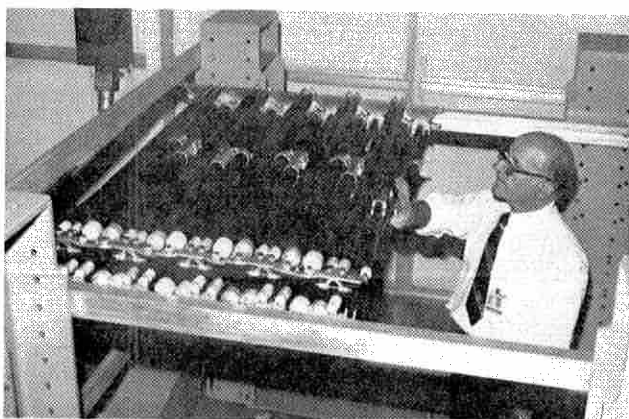
Examples of near-term applications of the new truss design on a future operational Space Shuttle are the Geostationary Communications Platform and Space Based Radar. Convair is currently studying the Geostationary Platform under a contract with Marshall Space Flight Center.

Key features of the new design are extremely light weight, high strength and stability over long lengths, and compact storage before deployment. General Dynamics holds a patent on the basic truss design. The patent was awarded to Des Vaughn of Advanced Structural Design in 1974, based on disclosures submitted in 1972. Future work will concentrate on developing machinery for automated deployment and retraction of the space truss.

Project leader for the space truss development is Ed Hujsak (Preliminary Design). Principal project participants were Tony Vasques and Ray Crupi (Preliminary Design) and Carl Smith (Composites Laboratory). Jim Melquist and Chuck Tracy of the Composites Laboratory assisted in the development of the tubes.



Shown with the new space truss are Ed Hujsak and Tony Vasques. The truss uses tubular elements of graphite epoxy and is shown in fully extended position. It is 26.5 feet long, 7.5 feet high, and 5 feet wide.



Ed Hujsak shows how the large truss folds into a compact "flatpack," only 9.3 inches high and 34.5 inches long (width remains at five feet). Twenty-four trusses, each capable of extending to nearly 500 feet, could be stowed in the Space Shuttle cargo bay and deployed in space to provide extremely large space structures.

Airline Cutbacks Mean Early Reservations

Travel Reservations asks employees who plan to be on travel to call in their requests as soon as possible. Due to increased fuel costs, airlines have been cutting back flights all over the country, making it more difficult to obtain reservations for our travelers.

Secretary Seminar Underway

Twenty-five management support personnel, representing almost every major department, have completed the third week of an eight-week seminar in professional effectiveness. Among the topics to be covered in the three-hour sessions are customer relations, effective writing and editing, time management, communication skills, office organization and productivity, and career development. Program Coordinator and instructor for several sessions is Dr. Caroline Miller, Educational Programs.

Goals of the seminar are to (1) enrich the professional development and effectiveness of the "secretary," (2) sharpen the professional image of the Convair Division, and (3) provide resources that will aid in supporting departmental processes.

After review and evaluation of the pilot program, the Professional Effectiveness seminar will be offered on a regular basis to other management support personnel.



Security Inspection Safeguard

To improve our overall security program, Plant Protection (Guard) or Industrial Security personnel may inspect all parcels being carried into or out of our facilities. This measure safeguards Government classified materials and the protection of Company, Government, and employee property. Parcels subject to inspection include all packages, lunch containers, briefcases, and tote-bags.

DC-10 Deliveries

Recent deliveries have been made for DC-10 fuselage numbers 320, 321, and 322. All were as scheduled for arrival to McDonnell Douglas in Long Beach.

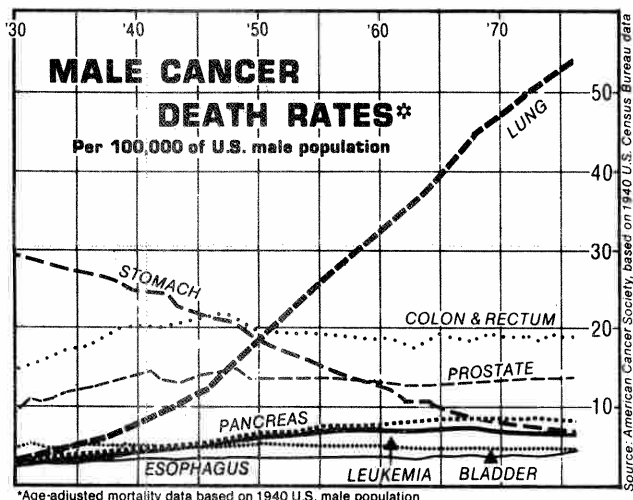
CMA Seminar "Inside Iran" Next Monday

Convair Management Association is sponsoring the special seminar "Inside Iran" next Monday evening, November 26, at 7:30 p.m. in the Convair KM cafeteria. George Roos will speak from his experience working in Iran. The seminar is open to all General Dynamics employees and their families.

Blood Pressure Machine in CRA

New this week in the KM CRA building is a machine which automatically checks blood pressure. It's available for all General Dynamics employees and their

families to use to periodically take their own readings. The process takes less than one minute. A table provides normal ranges, and readings beyond the normal range on a consistent basis should be reported to a private physician.



Great Smokeout Reprise

It was hard to miss the noise about last week's Great American Smokeout, sponsored by the American Cancer Society, with the flurry of press coverage. Some General Dynamics employees stopped by Employee Benefits and CRA to pick up the "Well Body Guide." This informative brochure about tips to health in general, as well as specific aids to stop smoking, is still available in those offices to any employees. Stop in and pick one up.

Another Look at Car Pooling

Now that we're back on the odd-even gas system, it is a good time to look once again at our modes of getting to and from work. On three occasions last week, the writer established by actual count that 80-90% of us are still driving to work alone. An instant way to keep several more bucks in your pocket each week is to form or join a car pool. Even if it's only with one other person, that means you drive your car only half as much, and use only half as much gas. More car pooling means less traffic, less stressful driving, easier parking, and fewer visits to the gas stations... Car pooling requires slightly more planning to stop at the bank or shopping center on the way home or during lunch hours. But it also means that you are making a tangible contribution to reducing the amount of gasoline we use and import to this country.

With this in mind, the State of California has initiated a new assistance program for van poolers. To encourage people to buy their own commuting vans and form their own van pools, the state will guarantee 90% of a loss in capital if the owner has to sell the van within one year because of unprofitable operation. Certain qualifications have to be met, such as safety and insurance, and the owner needs a minimum of ten riders. Commuter Computer, the agency involved in the program, will help locate riders. In a related program, the State will provide the van on a month-to-month lease. The driver can use the van for personal use up to 150 miles each month at no extra cost. Twelve riders are needed to qualify for this program.

The program coordinator, Howard Stapleton of Commuter Computer, says these programs are especially economical for people who drive more than fifteen miles one way to work. For those who live closer, the main benefits are less hassle with traffic and parking. One other advantage is that in the event of gas shortages, these van pool operators will be able to purchase gas under the state's allocation without concern for the odd-even system. If interested, call Stapleton at

237-POOL. That is also the place to call to let others know you're interested in a car pool or want riders.

Karl Taylor of Propulsion (Research & Engineering) has purchased a van under the state's support system and is looking for some more riders. He drives between Ramona and Kearny Mesa via Poway and on to Corporate Court (Twin Peaks to Norwalk to Poway Road). The van is a comfortable 1979 15-passenger Dodge Maxiwagon. Shift time is 7:30 a.m. to 4:15 p.m. Call him at 789-1418 if you're interested.

Make Your Reservations Now!

Don't Forget! Signup deadline for the Acapulco Riviera Cruise is November 26. The quoted price of \$1,265 to \$1,323 is all inclusive. No fuel surcharge is added during the cruise, and because you purchase the trip in 1979, there is no escalation in price.

You fly to Acapulco on Saturday, January 12, and cruise back to Los Angeles aboard the Pacific Princess (that's the love boat). Arrive Saturday morning, January 19, to enjoy twenty-four hours in Acapulco, a day in Puerto Vallarta and Mazatlan, and half days in Zihuatanejo and Cabo San Lucas. Transportation from San Diego, outside stateroom, and all meals and services aboard ship are included in the price.

A \$350 deposit is due with your reservation by November 16. The balance is due November 26. For reservations and more information, call Shirley Nowlin at KM 1163 or Judy Braun at LF 4247. The trip is being sponsored by the Convair Management Association.

Racquetball/Health Club Group Discount

The Perfect Racquet Racquetball/Health Club is offering a group discount to all General Dynamics employees. The 24-hour daily club operation is convenient for employees working on the second or third shift. The club is located in Mission Valley (next to TGI Friday's) and features 13 racquetball courts, saunas, jacuzzies, and fully-equipped weight room facilities. Child care is available, and the dance and exercise classes are free to members. This offer is limited, so contact the CRA Clubhouse (KM 1111) soon for details.

"The Nutcracker" Comes to San Diego

Don't miss this delightful holiday family treat on December 14 and 15 at the San Diego Civic Theatre, 202 C Street, downtown San Diego. Sponsored by CMA, this California Ballet Company production begins at 8 p.m. both nights. Excellent orchestra section seating, discounted to \$8.75 each, is available from Dave Miller (KM 3010) and Judy Braun (LF 4247).

CMA Sponsors Holiday Trip to Las Vegas

Spend an exciting holiday season weekend in Las Vegas, December 14 through December 16. Travel by charter Trailway bus, stay at the new Mini-Price Hotel (½ block from the MGM Grand), have special Saturday transportation downtown, with prizes, drinks, and snacks for all. Reserve your accommodations (\$135 for double occupancy, and \$80 for single) with Judy Braun (LF 4247) or Barbara Freeman (KM 2826).

ALCM Report

The sixth of our ten free flights in the air launch cruise missile competition was not successful last week. AL 6 fell into the Pacific Ocean off the California coast about one minute after being launched from a B-52 bomber. The cause of the difficulty is under investigation. Recovery operations are in progress.

Movie

Because of the Thanksgiving holiday, there will be no movie this week.

Employment

For the week ending Nov. 11 employment was 9,043.